STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3
AMENDED REPORT ☐

APPLICATION FOR PERMIT TO DRILL

1. WELL NAME and NUMBER
BONANZA 1023-5J3AS

2. TYPE OF WORK
DRILL NEW WELL ● REENTER P&A WELL ○ DEEPEN WELL ○

3. FIELD OR WILDCAT
NATURAL BUTTES

4. TYPE OF WELL
Gas Well Coalbed Methane Well: NO

5. UNIT or COMMUNITIZATION AGREEMENT NAME

6. NAME OF OPERATOR
KERR-MCGEE OIL & GAS ONSHORE, L.P.

7. OPERATOR PHONE
720 929-6515

8. ADDRESS OF OPERATOR
P.O. Box 173779, Denver, CO, 80217

9. OPERATOR E-MAIL
julie.jacobson@anadarko.com

10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE)
UTU33433

11. MINERAL OWNERSHIP
FEDERAL ● INDIAN ○ STATE ○ FEE ○

12. SURFACE OWNERSHIP
FEDERAL ● INDIAN ○ STATE ○ FEE ○

13. NAME OF SURFACE OWNER (if box 12 = 'fee')

14. SURFACE OWNER PHONE (if box 12 = 'fee')

15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')

16. SURFACE OWNER E-MAIL (if box 12 = 'fee')

17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')

18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS
YES ● (Submit Commingling Application) NO ○

19. SLANT
VERTICAL ○ DIRECTIONAL ● HORIZONTAL ○

20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	1620 FSL 1056 FEL	NESE	5	10.0 S	23.0 E	S
Top of Uppermost Producing Zone	1690 FSL 2100 FEL	NWSE	5	10.0 S	23.0 E	S
At Total Depth	1690 FSL 2100 FEL	NWSE	5	10.0 S	23.0 E	S

21. COUNTY
UINTAH

22. DISTANCE TO NEAREST LEASE LINE (Feet)
628

23. NUMBER OF ACRES IN DRILLING UNIT
1923

25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)
823

26. PROPOSED DEPTH
MD: 8566 TVD: 8412

27. ELEVATION - GROUND LEVEL
5299

28. BOND NUMBER
WYB000291

29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE
43-8496

Hole, Casing, and Cement Information

String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
Surf	11	8.625	0 - 2300	28.0	J-55 LT&C	0.2	Type V	180	1.15	15.8
							Class G	270	1.15	15.8
Prod	7.875	4.5	0 - 8566	11.6	I-80 LT&C	12.5	Premium Lite High Strength	280	3.38	11.0
							50/50 Poz	1150	1.31	14.3

ATTACHMENTS

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES

- ☑ WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER
- ☑ COMPLETE DRILLING PLAN
- ☐ AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)
- ☐ FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER
- ☑ DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)
- ☑ TOPOGRAPHICAL MAP

NAME Gina Becker | **TITLE** Regulatory Analyst II | **PHONE** 720 929-6086

SIGNATURE | **DATE** 10/17/2011 | **EMAIL** gina.becker@anadarko.com

API NUMBER ASSIGNED
43047520620000

APPROVAL

Permit Manager

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Kerr-McGee Oil & Gas Onshore. L.P.

BONANZA 1023-5J3AS

Surface: 1620 FSL / 1056 FEL NESE
BHL: 1690 FSL / 2100 FEL NWSE

Section 5 T10S R23E

Uintah County, Utah
Mineral Lease: UTU-33433

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. & 2. **Estimated Tops of Important Geologic Markers:**
Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

Formation	Depth	Resource
Uinta	0 - Surface	
Green River	1237	
Birds Nest	1486	Water
Mahogany	1846	Water
Wasatch	4200	Gas
Mesaverde	6241	Gas
MVU2	7241	Gas
MVL1	7775	Gas
TVD	8412	
TD	8566	

3. **Pressure Control Equipment** (Schematic Attached)

Please refer to the attached Drilling Program

4. **Proposed Casing & Cementing Program:**

Please refer to the attached Drilling Program

5. **Drilling Fluids Program:**

Please refer to the attached Drilling Program

6. **Evaluation Program:**

Please refer to the attached Drilling Program

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7. **Abnormal Conditions:**

Maximum anticipated bottom hole pressure calculated at 8412' TVD, approximately equals 5,384 psi 0.64 psi/ft = actual bottomhole gradient

Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

Maximum anticipated surface pressure equals approximately 3,521 psi (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

Per Onshore Order No. 2 - Max Anticipated Surf. Press.(MASP) = (Pore Pressure at next csg point-
(0.22 psi/ft-partial evac gradient x TVD of next csg point))

8. **Anticipated Starting Dates:**

Drilling is planned to commence immediately upon approval of this application.

9. **Variances:**

Please refer to the attached Drilling Program.
Onshore Order #2 – Air Drilling Variance

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a variance to several requirements associated with air drilling outlined in Onshore Order 2

- Blowout Prevention Equipment (BOPE) requirements;
- Mud program requirements; and
- Special drilling operation (surface equipment placement) requirements associated with air drilling.

This Standard Operating Practices addendum provides supporting information as to why KMG current air drilling practices for constructing the surface casing hole should be granted a variance to Onshore Order 2 air drilling requirements.

The reader should note that the air rig is used only to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig, and is used to drill and construct the majority of the wellbore.

More notable, KMG has used the air rig layout and procedures outlined below to drill the surface casing hole in approximately 675 wells without incident of blow out or loss of life.

Background

In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet. The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.

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Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may be set deeper in areas that the surface formation is not found competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

The air rig is then mobilized to drill the surface casing hole by drilling a 12 1/4 inch hole for the first 200 feet, then will drill a 11inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 11 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 8-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.

Variance for BOPE Requirements
The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.

Variance for Mud Material Requirements
Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.

Variance for Special Drilling Operation (surface equipment placement) Requirements
Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.

Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KMG well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and

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on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot light on the blooie line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations.

Variance for FIT Requirements
KMG also respectfully requests a variance to Onshore Order 2, Section III, Part Bi, for the pressure integrity test (PIT, also known as a formation integrity test (FIT)). This well is not an exploratory well and is being drilled in an area where the formation integrity is well known. Additionally, when an FIT is run with the mud weight as required, the casing shoe frequently breaks down and causes subsequent lost circulation when drilling the entire depth of the well.

Conclusion
The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above.

10. Other Information:

Please refer to the attached Drilling Program.

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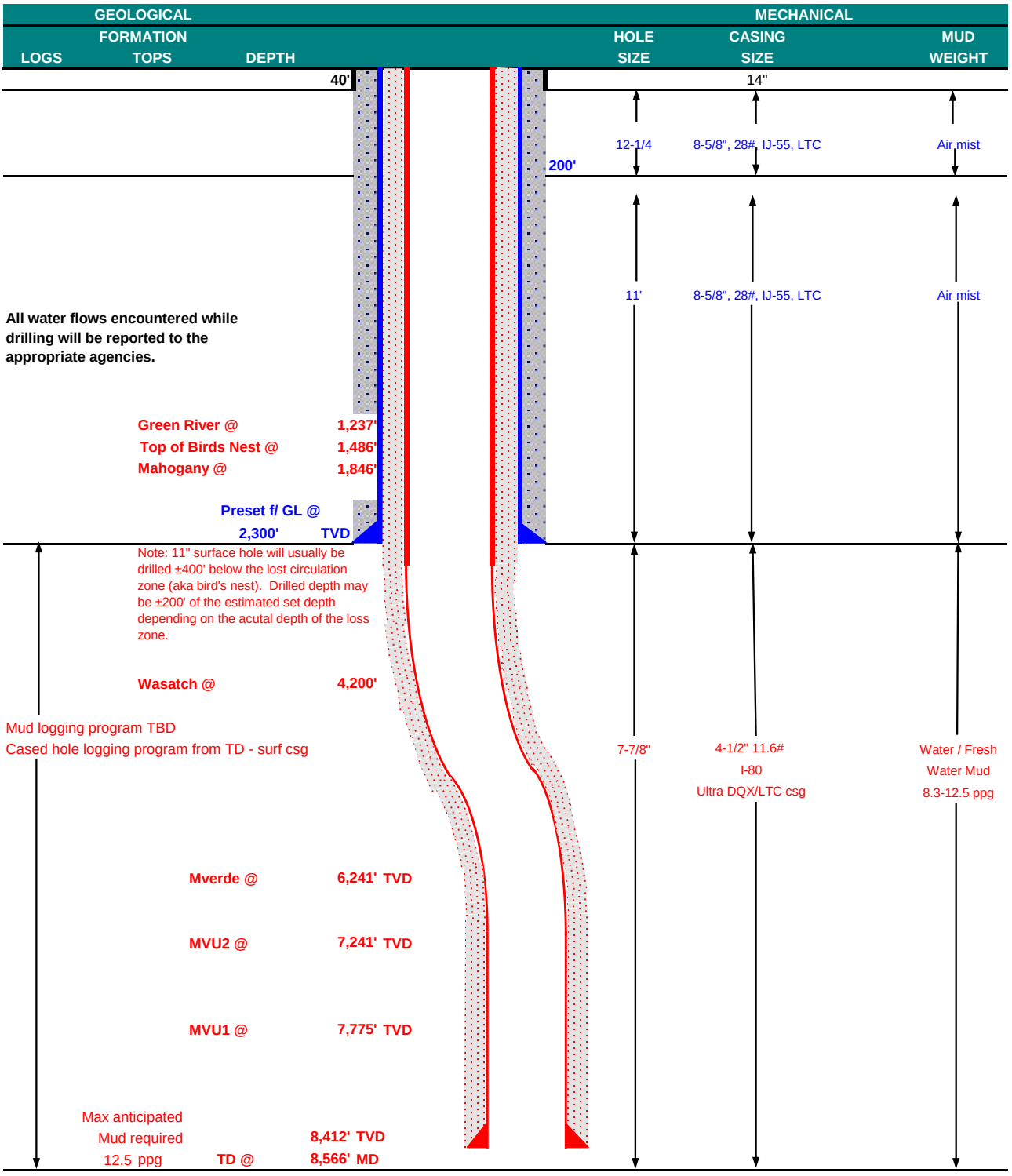
KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP		DATE	October 14, 2011	
WELL NAME	**BONANZA 1023-5J3AS**		TD	8,412' TVD	8,566' MD
FIELD	Natural Buttes	COUNTY Uintah	STATE Utah	FINISHED ELEVATION	5299.2
SURFACE LOCATION	NESE	1620 FSL	1056 FEL	Sec 5	T 10S R 23E
	Latitude:	39.975167	Longitude:	-109.345096	NAD 83
BTM HOLE LOCATION	NWSE	1690 FSL	2100 FEL	Sec 5	T 10S R 23E
	Latitude:	39.975349	Longitude:	-109.348819	NAD 83
OBJECTIVE ZONE(S)	Wasatch/Mesaverde				
ADDITIONAL INFO	Regulatory Agencies: BLM (Minerals), BLM (Surface), UDOGM Tri-County Health Dept.				



KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL			WT.	GR.	CPLG.	DESIGN FACTORS BURST	COLLAPSE	LTC	DQX TENSION
CONDUCTOR	14"	0-40'									
								3,390	1,880	348,000	N/A
SURFACE	8-5/8"	0	to	2,300	28.00	IJ-55	LTC	2.35	1.75	6.17	N/A
								7,780	6,350	223,000	267,035
PRODUCTION	4-1/2"	0	to	5,000	11.60	I-80	DQX	1.11	1.16		3.32
	4-1/2"	5,000	to	8,566'	11.60	I-80	LTC	1.11	1.16	6.66	

Surface Casing:

(Burst Assumptions: TD = 12.5 ppg) 0.73 psi/ft = frac gradient @ surface shoe

Fracture at surface shoe with 0.1 psi/ft gas gradient above

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

Production casing:

(Burst Assumptions: Pressure test with 8.4ppg @ 7000 psi) 0.64 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT		YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl	180	60%	15.80		1.15
Option 1			+ 0.25 pps flocele					
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	270	0%	15.80		1.15
			+ 2% CaCl + 0.25 pps flocele					
SURFACE		**NOTE: If well will circulate water to surface, option 2 will be utilized**						
Option 2	LEAD	1,800'	65/35 Poz + 6% Gel + 10 pps gilsonite	170	35%	11.00		3.82
			+ 0.25 pps Flocele + 3% salt BWOW					
	TAIL	500'	Premium cmt + 2% CaCl	150	35%	15.80		1.15
			+ 0.25 pps flocele					
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80		1.15
PRODUCTION	LEAD	3,696'	Premium Lite II +0.25 pps	280	20%	11.00		3.38
			celloflake + 5 pps gilsonite + 10% gel					
			+ 0.5% extender					
	TAIL	4,870'	50/50 Poz/G + 10% salt + 2% gel	1,150	35%	14.30		1.31
			+ 0.1% R-3					

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. No centralizers will be used.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

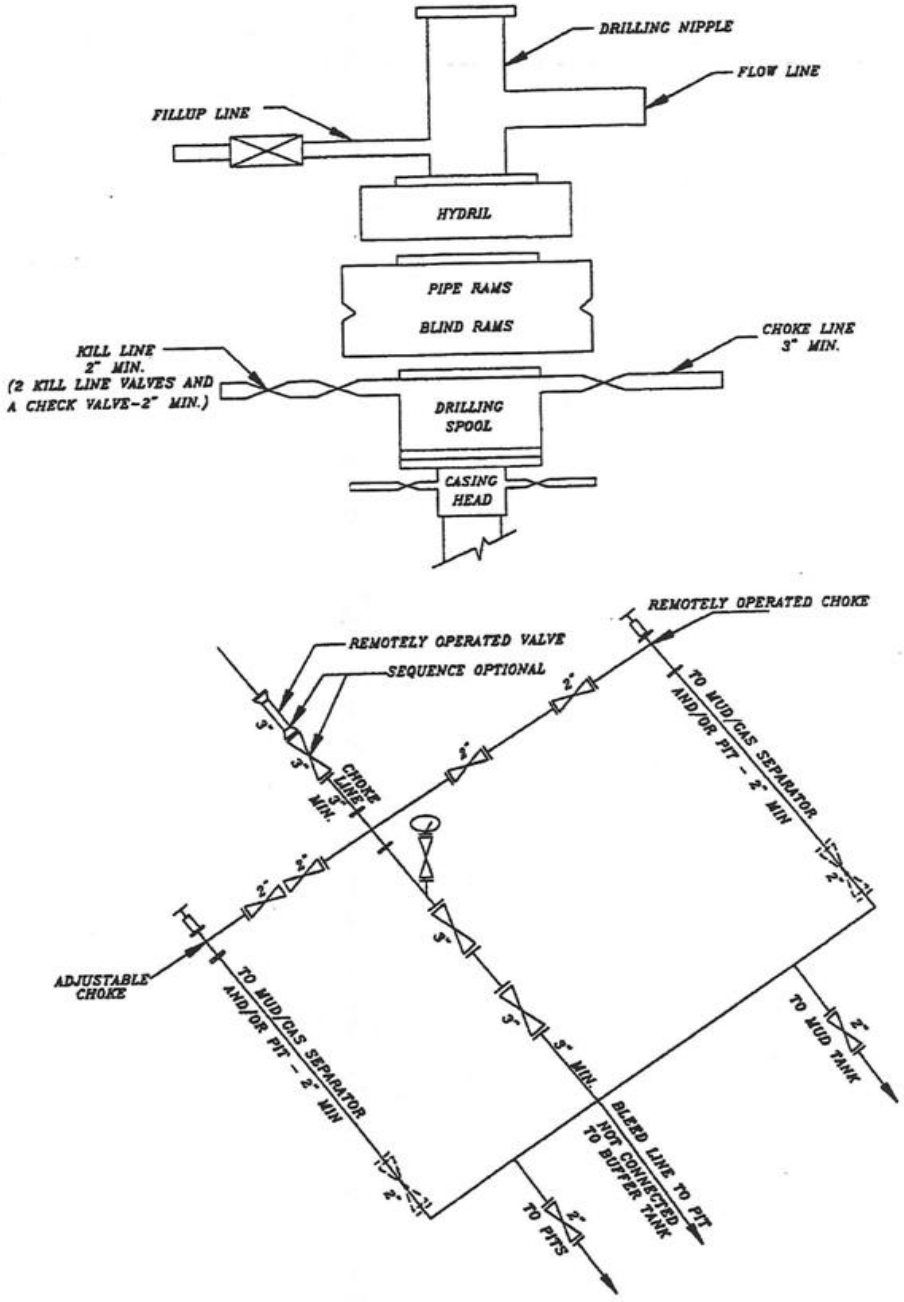
Surveys will be taken at 1,000' minimum intervals.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER: Nick Spence / Danny Showers / Chad Loesel **DATE:**

DRILLING SUPERINTENDENT: Kenny Gathings / Lovel Young **DATE:**

EXHIBIT A
BONANZA 1023-5J3AS



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

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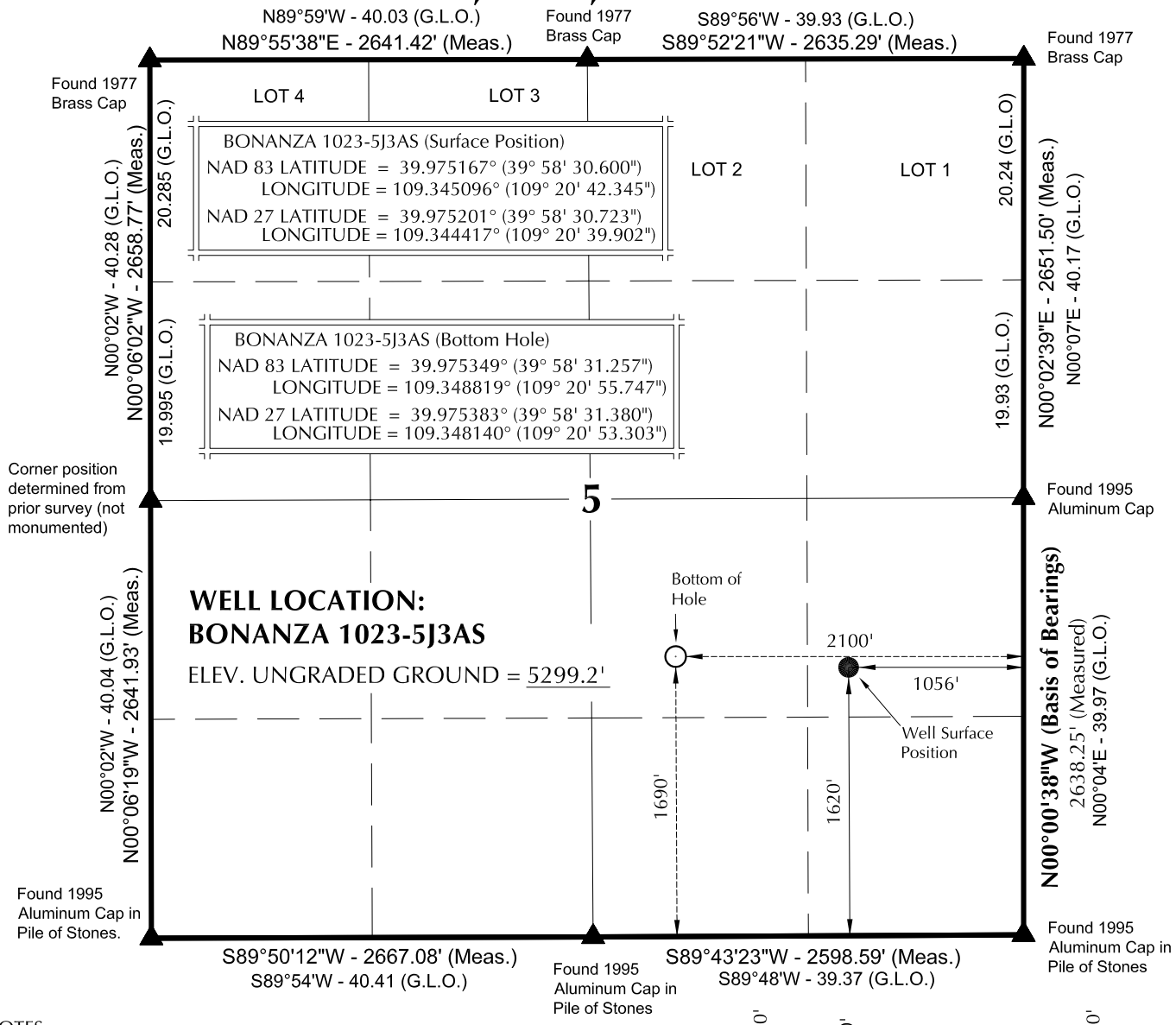
API Well Number: 43047520620000

T10S, R23E, S.L.B.&M.



NOTES:

▲ = Section Corners Located

1. Well footages are measured at right angles to the Section Lines.
2. G.L.O. distances are shown in feet or chains. 1 chain = 66 feet.
3. The Bottom of hole bears N86°25'41"W - 1045.74' from the Surface Position.
4. Bearings are based on Global Positioning Satellite observations.
5. Basis of elevation is Tri-Sta "Two Water" located in the NW ¼ of Section 1, T10S, R21E, S.L.B.&M. The elevation of this Tri-Sta is shown on the Big Pack Mtn NE 7.5 Min. Quadrangle as being 5238'.

N

1000' 500' 0' 1000'

SCALE

SURVEYOR'S CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

PROFESSIONAL LAND SURVEYOR
REGISTRATION No. 6028691
STATE OF UTAH

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD: BONANZA 1023-5I

BONANZA 1023-5J3AS
WELL PLAT
1690' FSL, 2100' FEL (Bottom Hole)
NW ¼ SE ¼ OF SECTION 5, T10S, R23E, S.L.B.&M., UINTAH COUNTY, UTAH.

609 CONSULTING, LLC
371 Coffeen Avenue
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

TIMBERLINE (435) 789-1365
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE SURVEYED: 03-09-10	SURVEYED BY: M.S.B.	SHEET NO: 1
DATE DRAWN: 03-10-10	DRAWN BY: E.M.S.	1 OF 19
SCALE: 1" = 1000'	Date Last Revised:	

RECEIVED: October 17, 2011

WELL NAME	SURFACE POSITION					BOTTOM HOLE				
	NAD83		NAD27			NAD83		NAD27		
	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	FOOTAGES	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	FOOTAGES
BONANZA 1023-5J3AS	39°58'30.600" 39.975167°	109°20'42.345" 109.345096°	39°58'30.723" 39.975201°	109°20'39.902" 109.344417°	1620' FSL 1056' FEL	39°58'31.257" 39.975349°	109°20'55.747" 109.348819°	39°58'31.380" 39.975383°	109°20'53.303" 109.348140°	1690' FSL 2100' FEL
BONANZA 1023-5G4DS	39°58'30.648" 39.975180°	109°20'42.233" 109.345065°	39°58'30.771" 39.975214°	109°20'39.790" 109.344386°	1625' FSL 1048' FEL	39°58'40.766" 39.977990°	109°20'47.052" 109.346403°	39°58'40.888" 39.978025°	109°20'44.608" 109.345725°	2643' FNL 1424' FEL
BONANZA 1023-5I1BS	39°58'30.697" 39.975194°	109°20'42.119" 109.345033°	39°58'30.819" 39.975228°	109°20'39.676" 109.344355°	1629' FSL 1039' FEL	39°58'39.231" 39.977564°	109°20'33.595" 109.342665°	39°58'39.354" 39.977598°	109°20'31.153" 109.341987°	2491' FSL 376' FEL
BONANZA 1023-5I1CS	39°58'30.745" 39.975207°	109°20'42.009" 109.345003°	39°58'30.868" 39.975241°	109°20'39.566" 109.344324°	1634' FSL 1030' FEL	39°58'35.770" 39.976603°	109°20'34.679" 109.342966°	39°58'35.893" 39.976637°	109°20'32.237" 109.342288°	2141' FSL 460' FEL
BONANZA 1023-5I4BS	39°58'30.793" 39.975220°	109°20'41.896" 109.344971°	39°58'30.916" 39.975254°	109°20'39.453" 109.344293°	1639' FSL 1021' FEL	39°58'31.462" 39.975406°	109°20'34.878" 109.343022°	39°58'31.585" 39.975440°	109°20'32.436" 109.342343°	1705' FSL 475' FEL
BONANZA 1023-5PS	39°58'30.755" 39.975210°	109°20'41.721" 109.344922°	39°58'30.877" 39.975244°	109°20'39.278" 109.344244°	1635' FSL 1008' FEL					
SOUTHMAN CANYON 4-5	39°58'30.607" 39.975169°	109°20'41.892" 109.344970°	39°58'30.729" 39.975203°	109°20'39.449" 109.344291°	1620' FSL 1021' FEL					

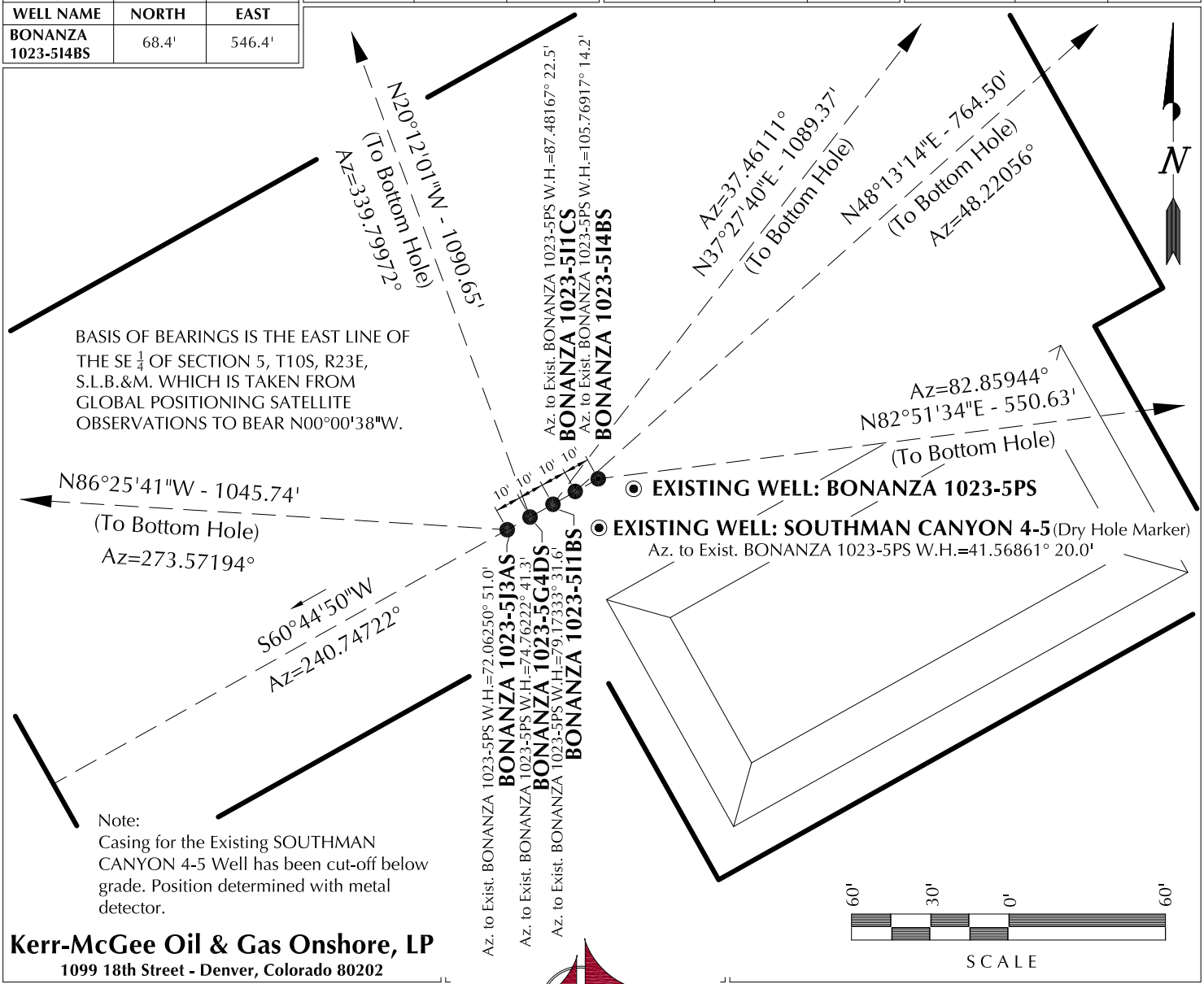
RELATIVE COORDINATES - From Surface Position to Bottom Hole

WELL NAME	NORTH	EAST
BONANZA 1023-5J3AS	65.2'	-1043.7'
BONANZA 1023-5I4BS	68.4'	546.4'

WELL NAME	NORTH	EAST
BONANZA 1023-5G4DS	1023.6'	-376.6'

WELL NAME	NORTH	EAST
BONANZA 1023-5I1BS	864.7'	662.6'

WELL NAME	NORTH	EAST
BONANZA 1023-5I1CS	509.4'	570.1'



Note:
Casing for the Existing SOUTHMAN CANYON 4-5 Well has been cut-off below grade. Position determined with metal detector.

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - BONANZA 1023-5I

WELL PAD INTERFERENCE PLAT
WELLS - BONANZA 1023-5J3AS, BONANZA 1023-5G4DS, BONANZA 1023-5I1BS, BONANZA 1023-5I1CS & BONANZA 1023-5I4BS
LOCATED IN SECTION 5, T10S, R23E, S.L.B.&M., UINTAH COUNTY, UTAH.

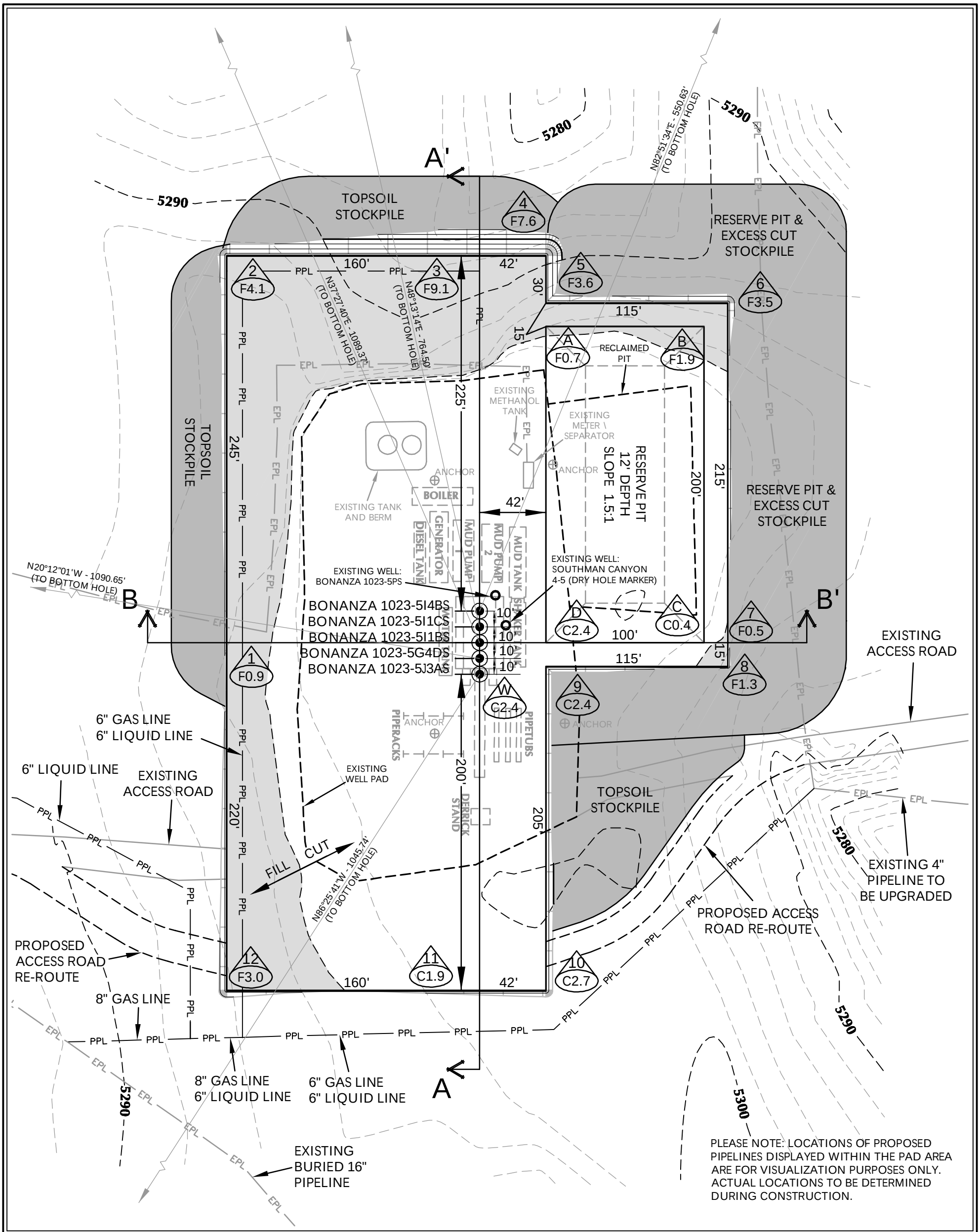
609 CONSULTING, LLC
371 Coffeen Avenue
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

TIMBERLINE (435) 789-1365
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE SURVEYED: 03-09-10	SURVEYED BY: M.S.B.	SHEET NO: 6
DATE DRAWN: 03-10-10	DRAWN BY: E.M.S.	6 OF 17
SCALE: 1" = 60'	Date Last Revised:	

RECEIVED: October 17, 2011

API Well Number: 43047520620000



WELL PAD - BONANZA 1023-5I DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 5299.2'
FINISHED GRADE ELEVATION = 5296.8'
CUT SLOPES = 1.5:1
FILL SLOPES = 1.5:1
TOTAL WELL PAD AREA = 2.92 ACRES
TOTAL DAMAGE AREA = 5.89 ACRES
SHRINKAGE FACTOR = 1.10
SWELL FACTOR = 1.00

WELL PAD QUANTITIES

TOTAL CUT FOR WELL PAD = 5,476 C.Y.
TOTAL FILL FOR WELL PAD = 5,134 C.Y.
TOPSOIL @ 6" DEPTH = 1,448 C.Y.
EXCESS MATERIAL = 342 C.Y.

RESERVE PIT QUANTITIES

TOTAL CUT FOR RESERVE PIT
+/- 6,680 CY
RESERVE PIT CAPACITY (2' OF FREEBOARD)
+/- 25,330 BARRELS

WELL PAD LEGEND

- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PROPOSED BOTTOM HOLE LOCATION
- EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)
- PPL — PROPOSED PIPELINE
- EPL — EXISTING PIPELINE

HORIZONTAL 0 30 60 1" = 60'
2' CONTOURS

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - BONANZA 1023-5I

WELL PAD - LOCATION LAYOUT
BONANZA 1023-5J3AS,
BONANZA 1023-5G4DS, BONANZA 1023-5I1BS,
BONANZA 1023-5I1CS & BONANZA 1023-5I4BS
LOCATED IN SECTION 5, T10S, R23E,
S.L.B.&M., UINTAH COUNTY, UTAH.

609 CONSULTING, LLC
371 Coffeen Avenue
Sheridan, WY 82801
Phone 307-674-0609
Fax 307-674-0182

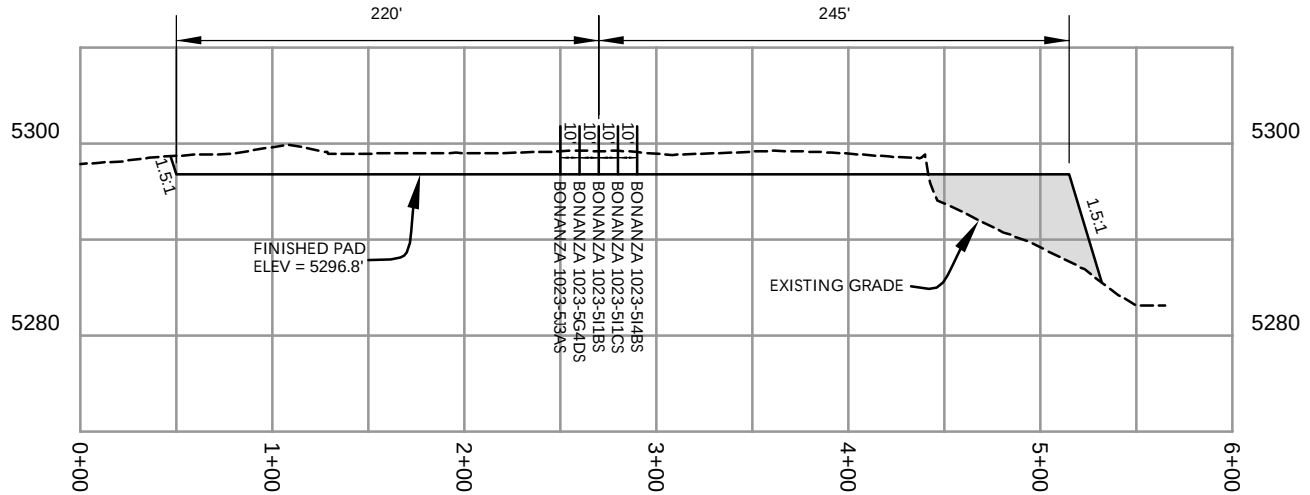
TIMBERLINE ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078
(435) 789-1365

Scale: 1"=60' | Date: 3/30/10 | SHEET NO: 7 7 OF 17
REVISED: SEA 6/25/10

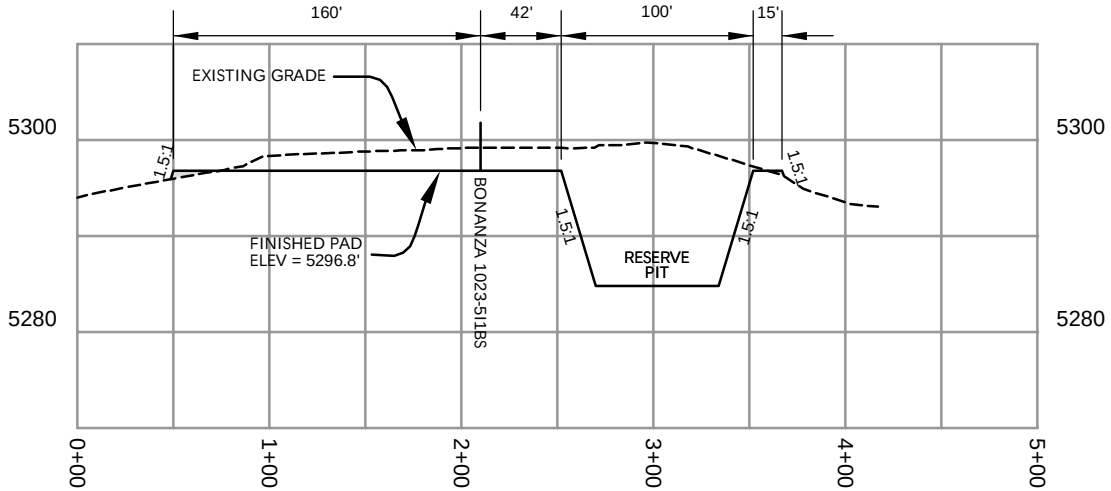
C:\ANADARKO\2010_11_BON_FOCUS_SEC_5-10S\DWGS\BONANZA_1023-5I\1023-5I_20100601.dwg, 7/28/2010 10:09:07 AM

RECEIVED: October 17, 2011

API Well Number: 43047520620000



CROSS SECTION A-A'



CROSS SECTION B-B'

NOTE: CROSS SECTION B-B' DEPICTS MAXIMUM RESERVE PIT DEPTH.

HORIZONTAL 0 50 100 1" = 100'

VERTICAL 0 10 20 1" = 20'

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - BONANZA 1023-5I

WELL PAD - CROSS SECTIONS
BONANZA 1023-5J3AS,
BONANZA 1023-5G4DS, BONANZA 1023-5I1BS,
BONANZA 1023-5I1CS & BONANZA 1023-5I4BS
LOCATED IN SECTION 5, T10S, R23E,
S.L.B.&M., UINTAH COUNTY, UTAH.

609 CONSULTING, LLC
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TIMBERLINE ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078
(435) 789-1365

Scale: 1"=100'	Date: 3/30/10	SHEET NO:
REVISED: SEA 6/25/10		8 8 OF 17

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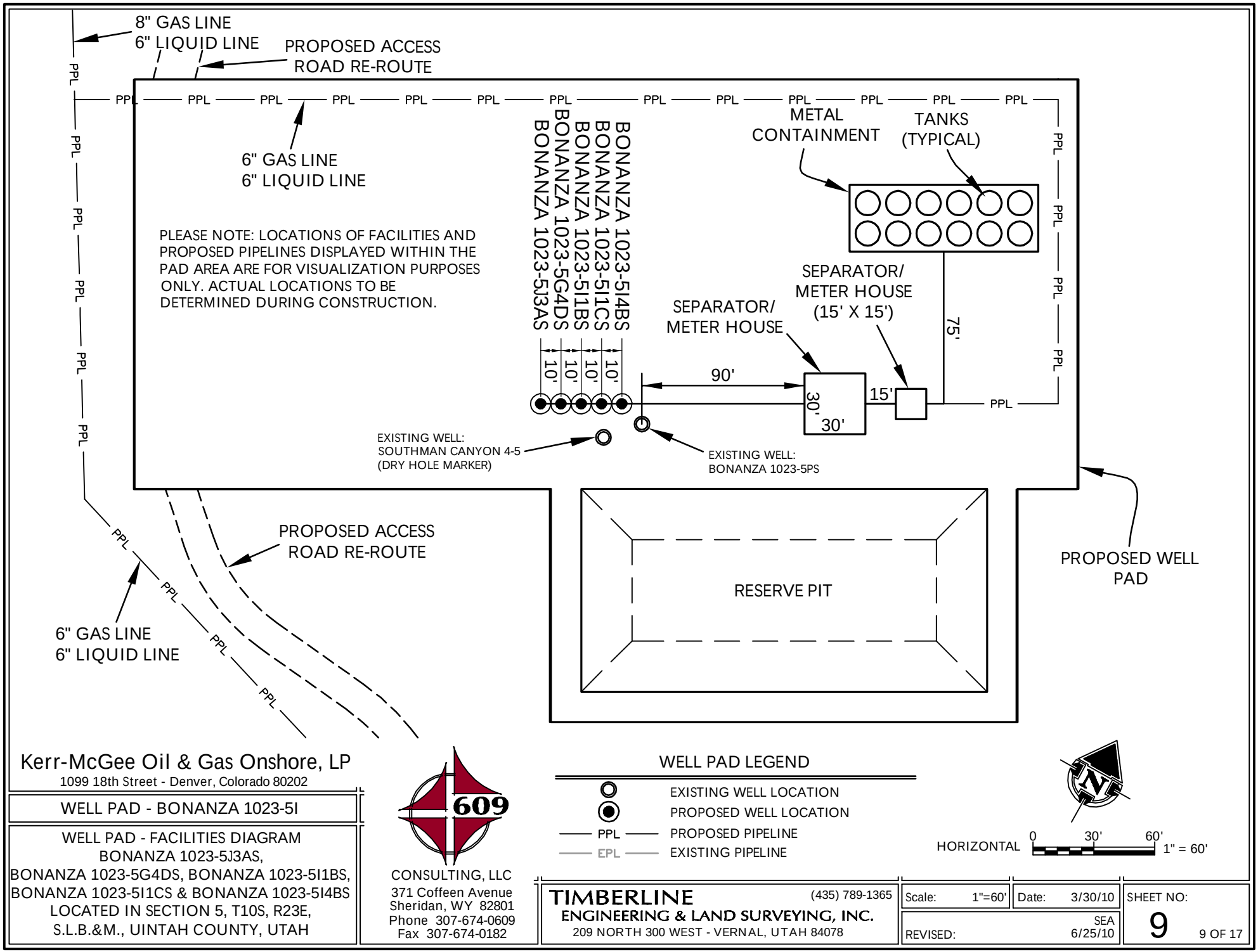

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - BONANZA 1023-5I

WELL PAD - FACILITIES DIAGRAM
BONANZA 1023-5J3AS,
BONANZA 1023-5G4DS, BONANZA 1023-5I1BS,
BONANZA 1023-5I1CS & BONANZA 1023-5I4BS
LOCATED IN SECTION 5, T10S, R23E,
S.L.B.&M., UINTAH COUNTY, UTAH

609 CONSULTING, LLC
371 Coffeen Avenue
Sheridan, WY 82801
Phone 307-674-0609
Fax 307-674-0182

WELL PAD LEGEND

- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PPL — PROPOSED PIPELINE
- EPL — EXISTING PIPELINE

TIMBERLINE ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078
(435) 789-1365

Scale: 1"=60' | Date: 3/30/10 | SHEET NO: 9 | 9 OF 17
REVISED: SEA 6/25/10

K:\ANADARKO\2010_11_BON_FOCUS_SEC_5-1023\DWGS\BONANZA_1023-5I1023-5I_20100601.dwg, 7/28/2010 10:09:21 AM

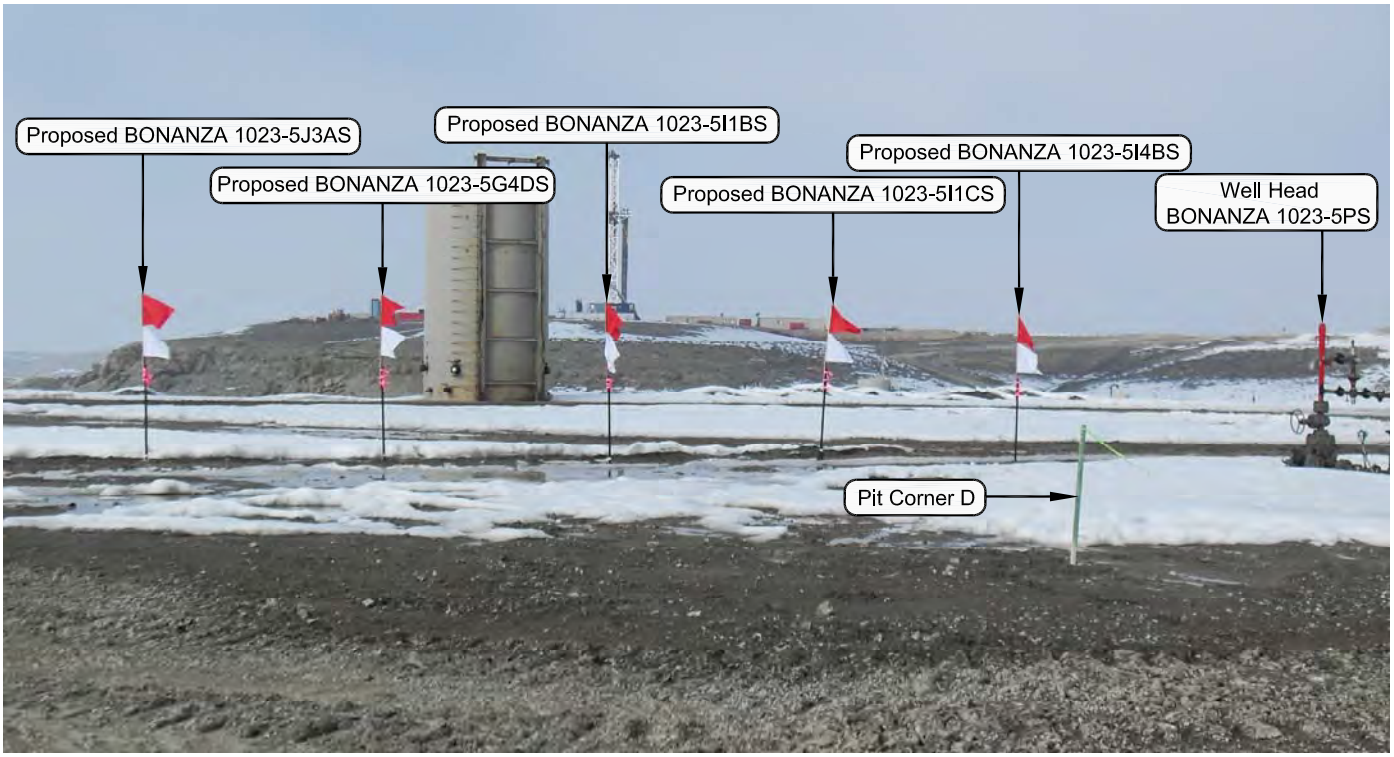

PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKES **CAMERA ANGLE: NORTHWESTERLY**

PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD **CAMERA ANGLE: SOUTHERLY**

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - BONANZA 1023-5I

LOCATION PHOTOS
BONANZA 1023-5J3AS, BONANZA 1023-5G4DS, BONANZA 1023-5I1BS, BONANZA 1023-5I1CS & BONANZA 1023-5I4BS
LOCATED IN SECTION 5, T10S, R23E, S.L.B.&M., UINTAH COUNTY, UTAH.

609 CONSULTING, LLC
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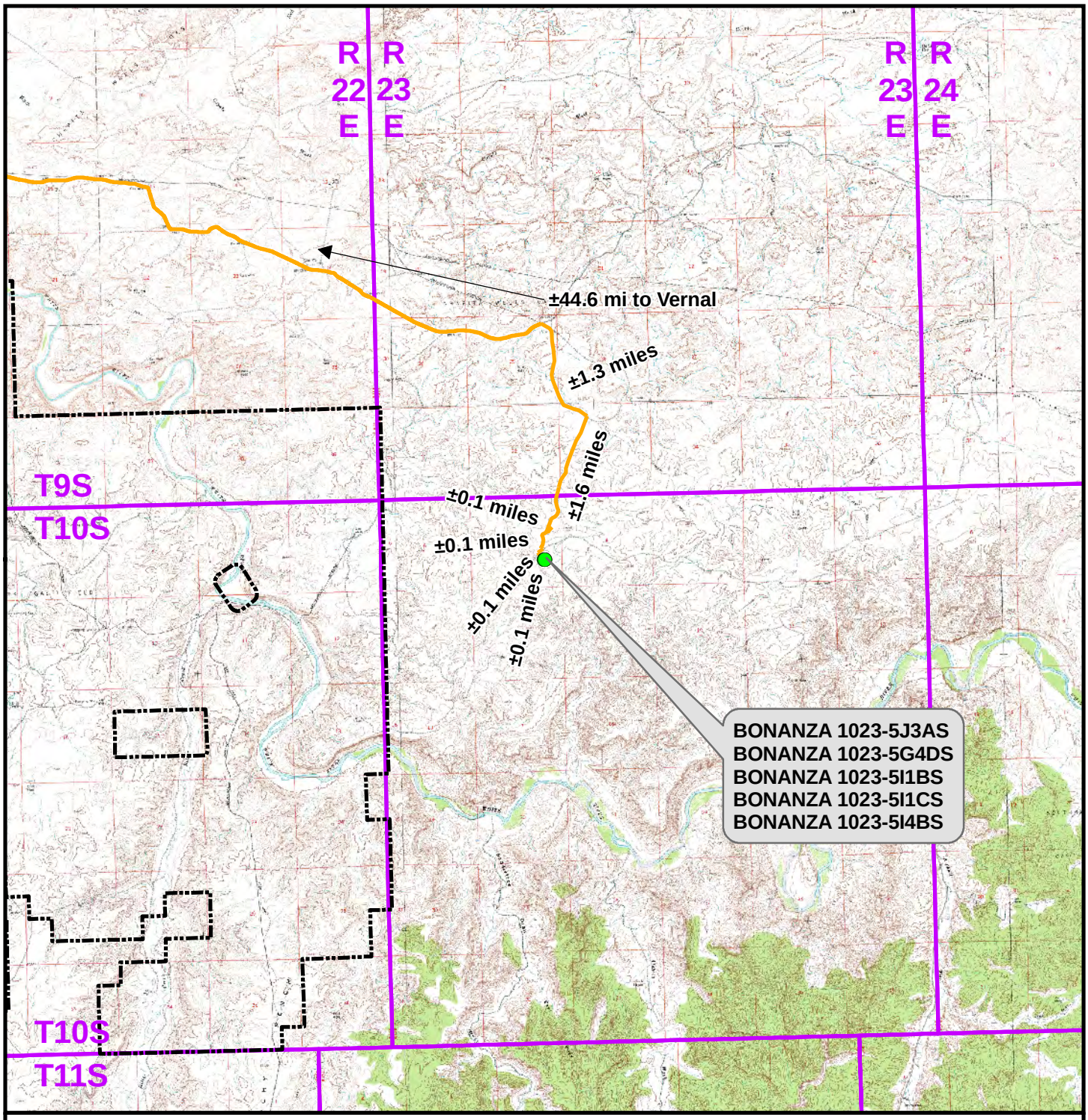
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

TIMBERLINE (435) 789-1365
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE PHOTOS TAKEN: 03-09-10	PHOTOS TAKEN BY: M.S.B.	SHEET NO: 10
DATE DRAWN: 03-10-10	DRAWN BY: E.M.S.	10 OF 17
Date Last Revised:		

RECEIVED: October 17, 2011

API Well Number: 43047520620000



Legend

Distance From Well Pad - BONANZA 1023-5I To Unit Boundary: ±9,070ft

Proposed Well Location

Natural Buttes Unit Boundary

Access Route - Proposed

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - BONANZA 1023-5I

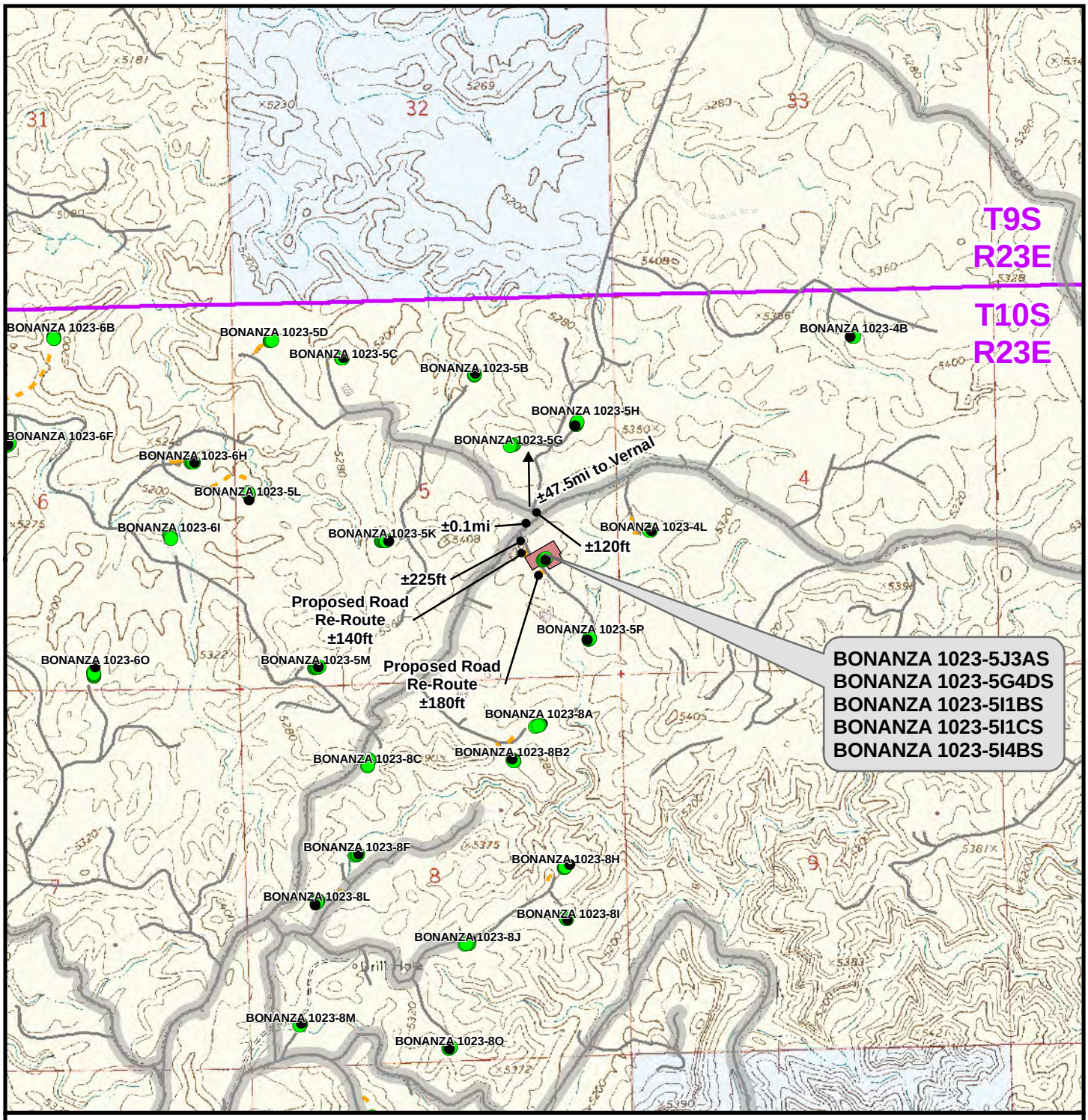
TOPO A
BONANZA 1023-5J3AS, BONANZA 1023-5G4DS,
BONANZA 1023-5I1BS, BONANZA 1023-5I1CS &
BONANZA 1023-5I4BS
LOCATED IN SECTION 5, T10S, R23E
S.L.B.&M., UINTAH COUNTY, UTAH

609 CONSULTING, LLC
371 Coffeen Avenue
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182

N

Scale: 1:100,000	NAD83 USP Central	Sheet No: 11	11 of 17
Drawn: CPS	Date: 30 Mar 2010		
Revised: TL	Date: 25 June 2010		

RECEIVED: October 17, 2011



Legend

Total Proposed Road Re-Route Length: ±320ft

Well - Proposed | Well Pad | Road - Proposed | County Road | Bureau of Land Management | State

Well - Existing | Road - Existing | Indian Reservation | Private

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - BONANZA 1023-5I

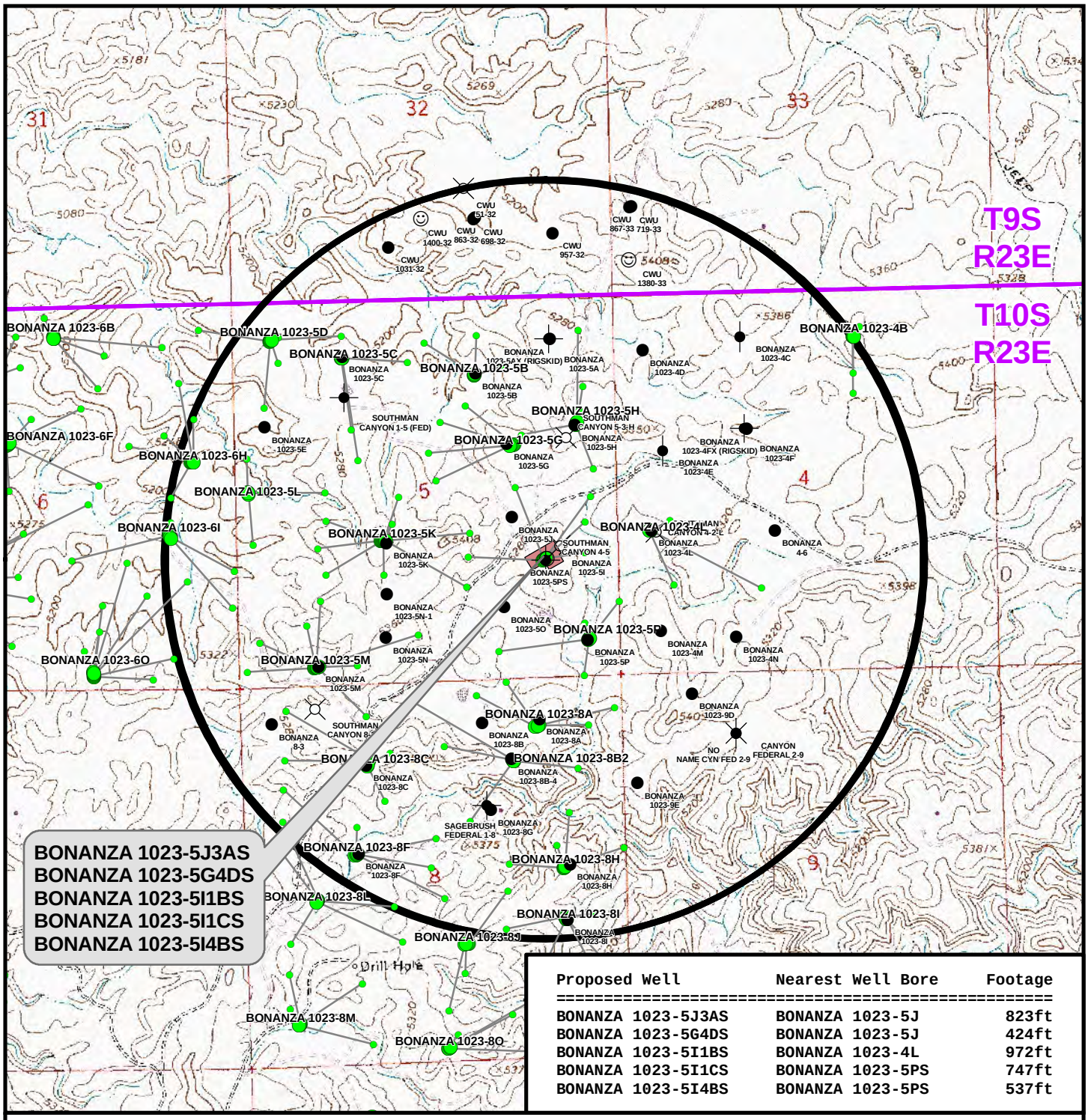
TOPO B
BONANZA 1023-5J3AS, BONANZA 1023-5G4DS, BONANZA 1023-5I1BS, BONANZA 1023-5I1CS & BONANZA 1023-5I4BS
LOCATED IN SECTION 5, T10S, R23E
S.L.B.&M., UINTAH COUNTY, UTAH

609 CONSULTING, LLC
371 Coffeen Avenue
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182

N

Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No: 12	12 of 17
Drawn: CPS	Date: 30 Mar 2010		
Revised: TL	Date: 25 June 2010		

RECEIVED: October 17, 2011



Proposed Well	Nearest Well Bore	Footage
BONANZA 1023-5J3AS	BONANZA 1023-5J	823ft
BONANZA 1023-5G4DS	BONANZA 1023-5J	424ft
BONANZA 1023-5I1BS	BONANZA 1023-4L	972ft
BONANZA 1023-5I1CS	BONANZA 1023-5PS	747ft
BONANZA 1023-5I4BS	BONANZA 1023-5PS	537ft

Legend

- Well - Proposed
- Bottom Hole - Proposed
- Well Path
- Well Pad
- Well - 1 Mile Radius

Well locations derived from State of Utah, Dept. of Natural Resources, Division of Oil, Gas and Mining

- Producing
- Active
- Spudded (Drilling commenced: Not yet completed)
- Approved permit (APD); not yet spudded
- New Permit (Not yet approved or drilled)
- Inactive
- Drilling Operations Suspended
- Temporarily-Abandoned
- Shut-In
- Plugged and Abandoned
- Location Abandoned
- Dry hole marker, buried
- Returned APD (Unapproved)

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - BONANZA 1023-5I

TOPO C
BONANZA 1023-5J3AS, BONANZA 1023-5G4DS, BONANZA 1023-5I1BS, BONANZA 1023-5I1CS & BONANZA 1023-5I4BS
LOCATED IN SECTION 5, T10S, R23E
S.L.B.&M., UINTAH COUNTY, UTAH

609 CONSULTING, LLC
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Sheridan, WY 82801
Phone (307) 674-0609
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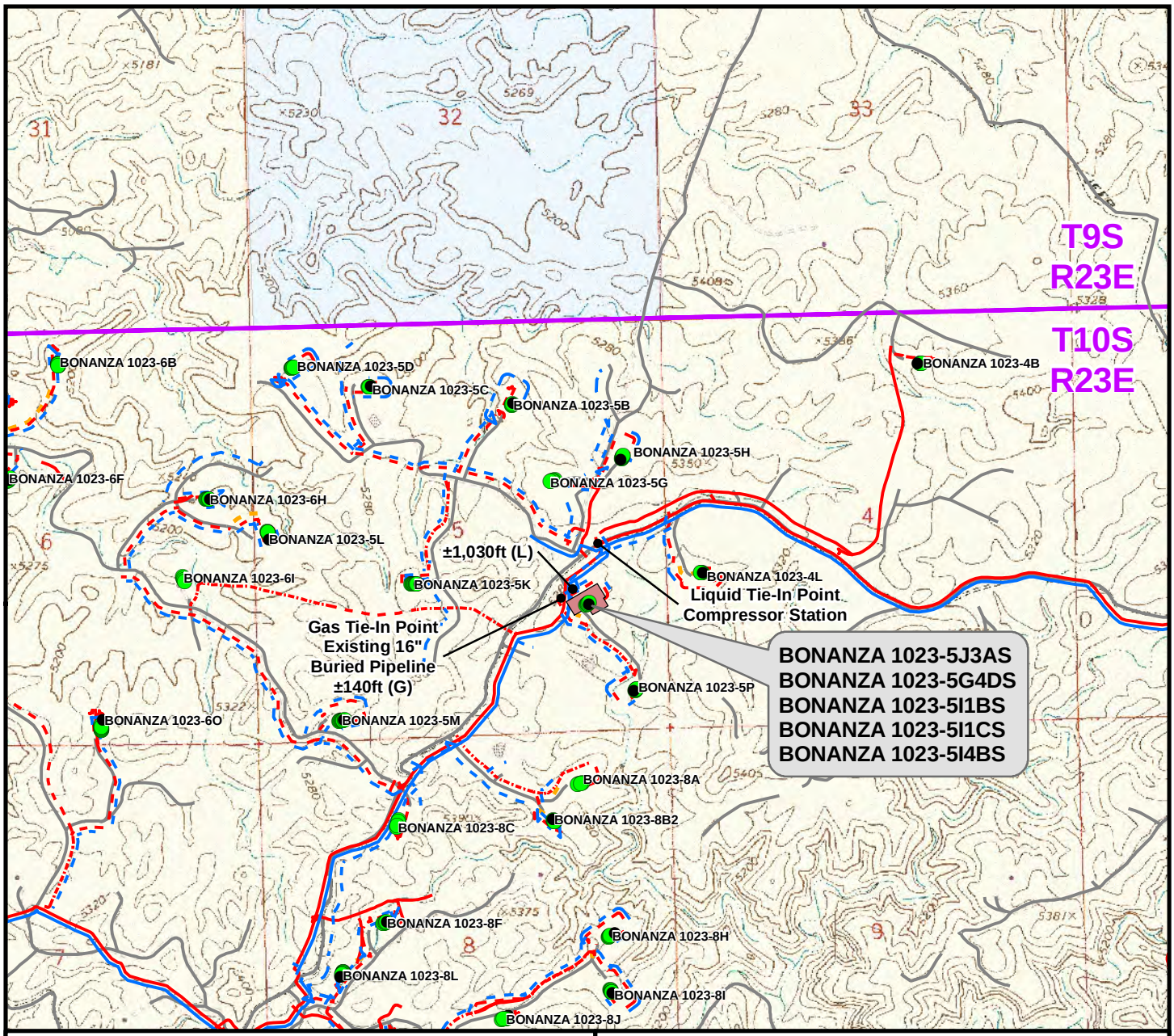
N

Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No: 13 of 17
Drawn: CPS	Date: 30 Mar 2010	
Revised: TL	Date: 25 June 2010	

RECEIVED: October 17, 2011



Proposed Liquid Pipeline	Length
Proposed 6" (First Meter House to Edge of Pad)	±680ft
Proposed 6" (Edge of Pad to Compressor Station)	±1,030ft
TOTAL PROPOSED LIQUID PIPELINE =	± 1,710ft

Proposed Gas Pipeline	Length
Proposed 6" (First Meter House to Edge of Pad)	±680ft
Proposed 6" (Edge of Pad to 1023-5P Intersection)	±30ft
Proposed 8" (1023-5P Intersection to Existing 16" Buried Pipeline)	±110ft
TOTAL PROPOSED GAS PIPELINE =	±820ft

Legend

- Well - Proposed
- Well - Existing
- Well Pad
- Gas Pipeline - Proposed
- Gas Pipeline - To Be Upgraded
- Gas Pipeline - Existing
- Liquid Pipeline - Proposed
- Liquid Pipeline - To Be Upgraded
- Liquid Pipeline - Existing
- Road - Proposed
- Road - Existing
- Bureau of Land Management
- Indian Reservation
- State
- Private

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - BONANZA 1023-5I

TOPO D
BONANZA 1023-5J3AS, BONANZA 1023-5G4DS, BONANZA 1023-5I1BS, BONANZA 1023-5I1CS & BONANZA 1023-5I4BS
LOCATED IN SECTION 5, T10S, R23E
S.L.B.&M., UINTAH COUNTY, UTAH

609 CONSULTING, LLC
371 Coffeen Avenue
Sheridan, WY 82801
Phone (307) 674-0609
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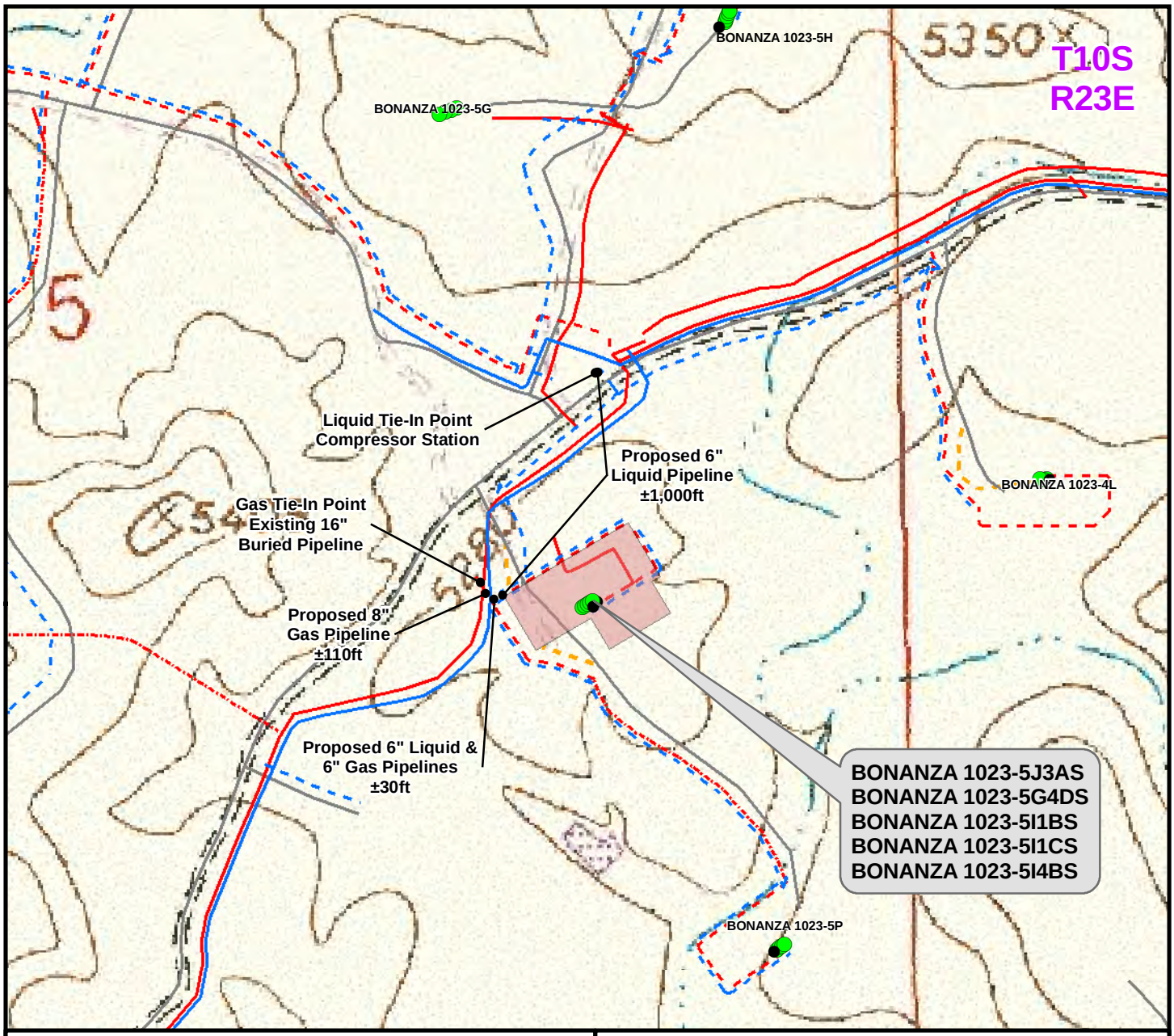
Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No: 14 of 17
Drawn: CPS	Date: 30 Mar 2010	
Revised: TL	Date: 25 June 2010	



Proposed Liquid Pipeline	Length
Proposed 6" (First Meter House to Edge of Pad)	±680ft
Proposed 6" (Edge of Pad to Compressor Station)	±1,030ft
TOTAL PROPOSED LIQUID PIPELINE =	± 1,710ft

Proposed Gas Pipeline	Length
Proposed 6" (First Meter House to Edge of Pad)	±680ft
Proposed 6" (Edge of Pad to 1023-5P Intersection)	±30ft
Proposed 8" (1023-5P Intersection to Existing 16" Buried Pipeline)	±110ft
TOTAL PROPOSED GAS PIPELINE =	±820ft

Legend

- Well - Proposed
- Well - Existing
- Well Pad
- Gas Pipeline - Proposed
- Gas Pipeline - To Be Upgraded
- Gas Pipeline - Existing
- Liquid Pipeline - Proposed
- Liquid Pipeline - To Be Upgraded
- Liquid Pipeline - Existing
- Road - Proposed
- Road - Existing
- Bureau of Land Management
- Indian Reservation
- State
- Private

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - BONANZA 1023-5I

TOPO D (PAD & PIPELINE DETAIL)
BONANZA 1023-5J3AS, BONANZA 1023-5G4DS,
BONANZA 1023-5I1BS, BONANZA 1023-5I1CS &
BONANZA 1023-5I4BS
LOCATED IN SECTION 5, T10S, R23E
S.L.B.&M., UINTAH COUNTY, UTAH

609 CONSULTING, LLC
371 Coffeen Avenue
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182

N

Scale: 1" = 500ft	NAD83 USP Central	Sheet No: 15	15 of 17
Drawn: CPS	Date: 30 Mar 2010		
Revised: TL	Date: 25 June 2010		

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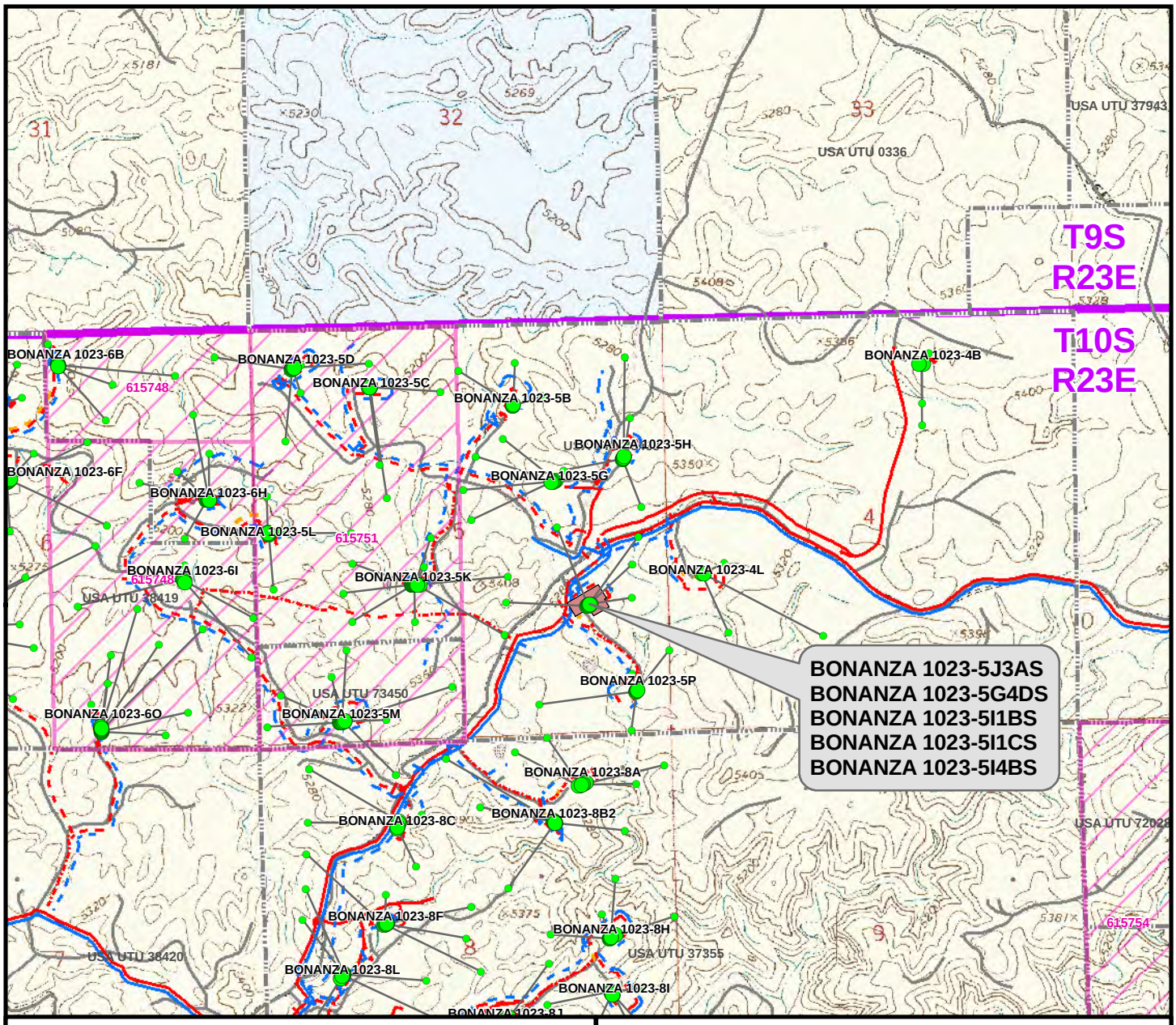

Proposed Well	Distance to Nearest CA Boundary
BONANZA 1023-5J3AS	510ft
BONANZA 1023-5G4DS	1,191ft
BONANZA 1023-5I1BS	2,238ft
BONANZA 1023-5I1CS	2,252ft
BONANZA 1023-5I4BS	2,134ft

Proposed Well	Distance To Nearest Lease Boundary
BONANZA 1023-5J3AS	628ft
BONANZA 1023-5G4DS	1,787ft
BONANZA 1023-5I1BS	2,491ft
BONANZA 1023-5I1CS	2,141ft
BONANZA 1023-5I4BS	1,705ft

Legend

- Well - Proposed
- Bottom Hole - Proposed
- Well Path
- Well Pad
- CA Agreement
- Lease Boundary
- Gas Pipeline - Proposed
- Gas Pipeline - To Be Upgraded
- Gas Pipeline - Existing
- Liquid Pipeline - Proposed
- Liquid Pipeline - To Be Upgraded
- Liquid Pipeline - Existing
- Road - Proposed
- Road - Existing
- Bureau of Land Management
- Indian Reservation
- State
- Private

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - BONANZA 1023-5I

TOPO E
BONANZA 1023-5J3AS, BONANZA 1023-5G4DS, BONANZA 1023-5I1BS, BONANZA 1023-5I1CS & BONANZA 1023-5I4BS
LOCATED IN SECTION 5, T10S, R23E
S.L.B.&M., UINTAH COUNTY, UTAH

609 CONSULTING, LLC
371 Coffeen Avenue
Sheridan, WY 82801
Phone (307) 674-0609
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N

Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No: 16 of 17
Drawn: CPS	Date: 30 Mar 2010	
Revised: TL	Date: 25 June 2010	

RECEIVED: October 17, 2011

Kerr-McGee Oil & Gas Onshore, LP
WELL PAD – BONANZA 1023-5I
WELLS – BONANZA 1023-5J3AS, BONANZA 1023-5G4DS, BONANZA 1023-5I1BS, BONANZA 1023-5I1CS & BONANZA 1023-5I4BS
Section 5, T10S, R23E, S.L.B.&M.

From the intersection of U.S. Highway 40 and 500 East Street in Vernal, Utah proceed in an easterly then southerly direction along U.S. Highway 40 approximately 3.3 miles to the junction of State Highway 45; exit right and proceed in a southerly direction along State Highway 45 approximately 20.2 miles to the junction of the Glen Bench Road (County B Road 3260). Exit right and proceed in a southwesterly direction along the Glen Bench Road approximately 14.4 miles to the intersection of the Chipeta Wells Road (County B Road 3410) which road intersection is approximately 400 feet northeast of the Mountain Fuel Bridge, at the White River. Exit left and proceed in a southeasterly direction along the Chipeta Wells Road approximately 6.7 miles to a Class D County Road to the right. Exit right and proceed in a southeasterly then southerly direction along the Class D Road approximately 1.3 miles to a second Class D County Road to the right. Exit right and proceed in a southwesterly direction along second Class D Road approximately 1.6 miles to a third Class D County Road to the left. Exit left and proceed in a southeasterly direction along third Class D Road approximately 120 feet to a fourth Class D County Road to the right. Exit right and proceed in a southwesterly direction along fourth Class D Road approximately 0.1 miles to a service road to the left. Exit left and proceed in a southeasterly direction along service road approximately 225 feet to a proposed access road to the right. Exit right and follow the road flags in a southerly direction approximately 140 feet to the proposed well pad.

Total distance from Vernal, Utah to the proposed well location is approximately 47.7 miles in a southerly direction.

RECEIVED: October 17, 2011

ANADARKO PETROLEUM CORP.

UINTAH COUNTY, UTAH (nad 27)
Bonanza 1023-5I
BONANZA 1023-5J3AS

BONANZA 1023-5J3AS

Plan: PLAN #1 4-28-10 RHS

Standard Planning Report

28 April, 2010

RECEIVED: October 17, 2011

API Well Number: 43047520620000

Anadarko Petroleum Corporation

Project: UINTAH COUNTY, UTAH (nad 27)
Site: Bonanza 1023-5I
Well: BONANZA 1023-5J3AS
Wellbore: BONANZA 1023-5J3AS
Section: SECTION 5 T10S R23E
SHL: 1620 FSL 1056 FEL
Design: PLAN #1 4-28-10 RHS
Latitude: 39° 58' 30.724 N
Longitude: 109° 20' 39.901 W
GL: 5302.00
KB: WELL @ 5311.00ft (Original Well Elev)

Weatherford

Azimuths to True North
Magnetic North: 11.17°

Magnetic Field
Strength: 52463.0snT
Dip Angle: 65.93°
Date: 4/28/2010
Model: BGGM2009

LEGEND

- BONANZA 1023-5G4DS, BONANZA 1023-5G4DS, PLAN #1 4-28-10 RHS V0
- BONANZA 1023-5I1BS, BONANZA 1023-5I1BS, PLAN #1 4-28-10 RHS V0
- BONANZA 1023-5I1CS, BONANZA 1023-5I1CS, PLAN #1 4-28-10 RHS V0
- BONANZA 1023-5I4BS, BONANZA 1023-5I4BS, PLAN #1 4-28-10 RHS V0
- Bonanza 1023-5PS EXISTING, Bonanza 1023-5PS EXISTING, Bonanza 1023-5PS EXISTING V0
- Southman Canyon 4-5 EXISTING, Southman Canyon 4-5 EXISTING, Southman Canyon 4-5 EXISTING V0
- PLAN #1 4-28-10 RHS

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1237.00	1238.15	GREEN RIVER
4200.00	4315.01	WASATCH
7241.00	7395.01	MESAVERDE

CASING DETAILS

TVD	MD	Name	Size
2000.00	2002.20	8 5/8"	8.62

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	Start Build 2.00
450.00	3.00	273.64	449.93	0.25	-3.92	2.00	273.64	3.93	Start 1652.33 hold at 450.00 MD
2102.33	3.00	273.64	2100.00	5.74	-90.22	0.00	0.00	90.40	Start DLS 3.00 TFO 0.00
2668.98	20.00	273.64	2653.24	12.88	-202.55	3.00	0.00	202.96	Start 1958.04 hold at 2668.98 MD
4627.03	20.00	273.64	4493.21	55.35	-870.88	0.00	0.00	872.63	Start Drop -2.00
5627.01	0.00	0.00	5473.00	66.31	-1043.29	2.00	180.00	1045.39	Start 2939.00 hold at 5627.01 MD
8566.01	0.00	0.00	8412.00	66.31	-1043.29	0.00	0.00	1045.39	TD at 8566.01

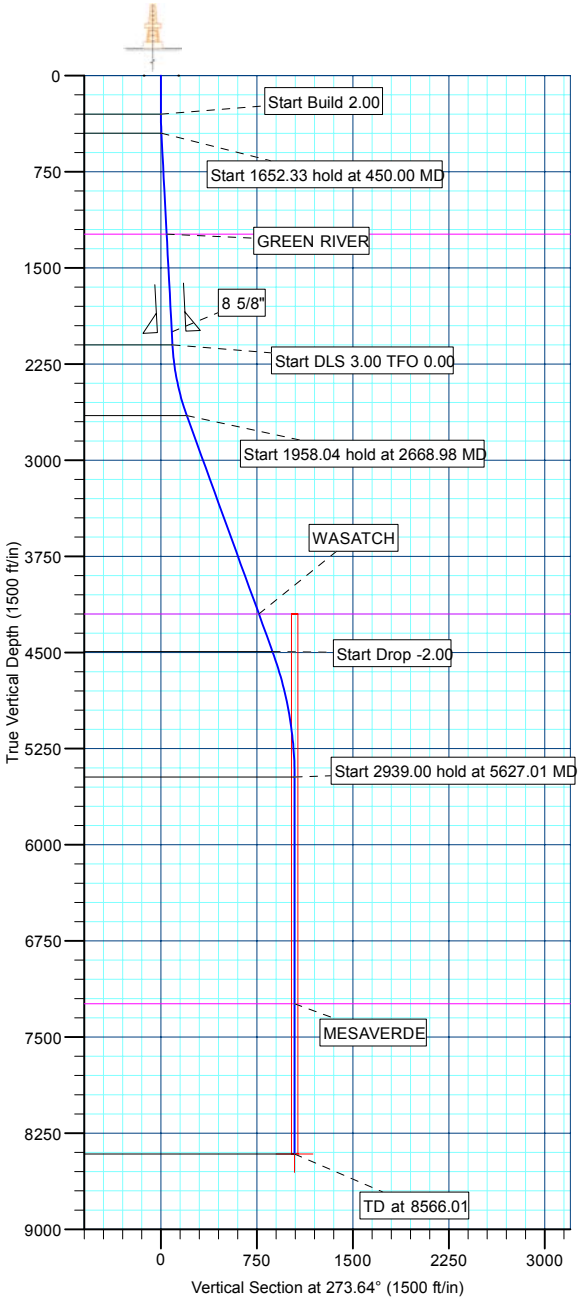
WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)

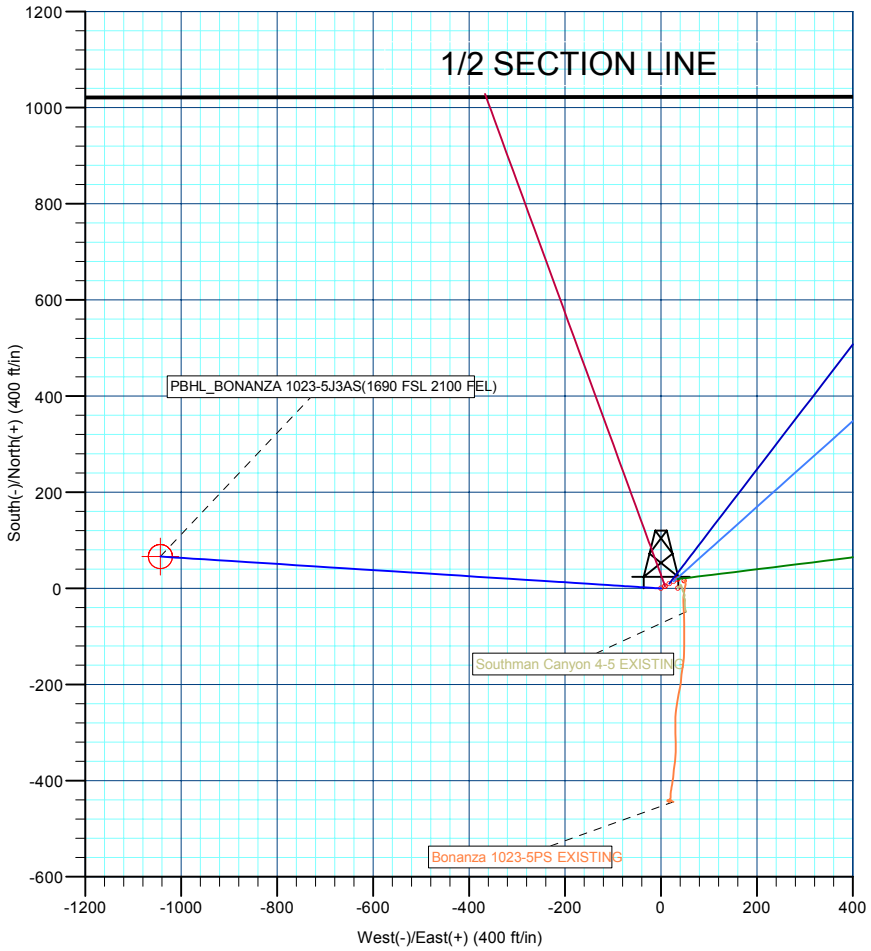
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
PBHL	8412.00	66.31	-1043.29	39° 58' 31.379 N	109° 20' 53.304 W	Circle (Radius: 25.00)

WELL DETAILS: BONANZA 1023-5J3AS

Ground Level: 5302.00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	14521320.25	2104255.52	39° 58' 30.724 N	109° 20' 39.901 W	





Plan: PLAN #1 4-28-10 RHS (BONANZA 1023-5J3AS/BONANZA 1023-5J3AS)

Created By: Robert H. Scott Date: 9:46, April 28 2010

Anadarko Petroleum Corporation

Weatherford International Ltd.

Planning Report

Weatherford

Database:	EDM 2003.21 Single User Db	**Local Co-ordinate Reference:**	Well BONANZA 1023-5J3AS
Company:	ANADARKO PETROLEUM CORP.	**TVD Reference:**	WELL @ 5311.00ft (Original Well Elev)
Project:	UINTAH COUNTY, UTAH (nad 27)	**MD Reference:**	WELL @ 5311.00ft (Original Well Elev)
Site:	Bonanza 1023-5I	**North Reference:**	True
Well:	BONANZA 1023-5J3AS	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BONANZA 1023-5J3AS		
Design:	PLAN #1 4-28-10 RHS		

Project UINTAH COUNTY, UTAH (nad 27),

Map System:	Universal Transverse Mercator (US Survey Fee	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Zone 12N (114 W to 108 W)		

Site Bonanza 1023-5I, SECTION 5 T10S R23E

Site Position:		**Northing:**	14,521,340.19 ft	**Latitude:**	39° 58' 30.914 N
From:	Lat/Long	**Easting:**	2,104,289.90 ft	**Longitude:**	109° 20' 39.455 W
Position Uncertainty:	0.00 ft	**Slot Radius:**	in	**Grid Convergence:**	1.06 °

Well BONANZA 1023-5J3AS

Well Position	**+N/-S**	-19.30 ft	**Northing:**	14,521,320.25 ft	**Latitude:**	39° 58' 30.724 N
	+E/-W	-34.75 ft	**Easting:**	2,104,255.52 ft	**Longitude:**	109° 20' 39.901 W
Position Uncertainty		0.00 ft	**Wellhead Elevation:**	ft	**Ground Level:**	5,302.00 ft

Wellbore BONANZA 1023-5J3AS

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2009	4/28/2010	11.17	65.93	52,463

Design PLAN #1 4-28-10 RHS

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	0.00

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	273.64

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
450.00	3.00	273.64	449.93	0.25	-3.92	2.00	2.00	0.00	273.64	
2,102.33	3.00	273.64	2,100.00	5.74	-90.22	0.00	0.00	0.00	0.00	
2,668.98	20.00	273.64	2,653.24	12.88	-202.55	3.00	3.00	0.00	0.00	
4,627.03	20.00	273.64	4,493.21	55.35	-870.88	0.00	0.00	0.00	0.00	
5,627.01	0.00	0.00	5,473.00	66.31	-1,043.29	2.00	-2.00	0.00	180.00	
8,566.01	0.00	0.00	8,412.00	66.31	-1,043.29	0.00	0.00	0.00	0.00	PBHL_BONANZA 1

Anadarko Petroleum Corporation

Weatherford International Ltd.

Planning Report

Weatherford

Database:	EDM 2003.21 Single User Db	**Local Co-ordinate Reference:**	Well BONANZA 1023-5J3AS
Company:	ANADARKO PETROLEUM CORP.	**TVD Reference:**	WELL @ 5311.00ft (Original Well Elev)
Project:	UINTAH COUNTY, UTAH (nad 27)	**MD Reference:**	WELL @ 5311.00ft (Original Well Elev)
Site:	Bonanza 1023-5I	**North Reference:**	True
Well:	BONANZA 1023-5J3AS	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BONANZA 1023-5J3AS		
Design:	PLAN #1 4-28-10 RHS		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
Start Build 2.00									
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	2.00	273.64	399.98	0.11	-1.74	1.75	2.00	2.00	0.00
Start 1652.33 hold at 450.00 MD									
450.00	3.00	273.64	449.93	0.25	-3.92	3.93	2.00	2.00	0.00
500.00	3.00	273.64	499.86	0.42	-6.53	6.54	0.00	0.00	0.00
600.00	3.00	273.64	599.73	0.75	-11.75	11.78	0.00	0.00	0.00
700.00	3.00	273.64	699.59	1.08	-16.98	17.01	0.00	0.00	0.00
800.00	3.00	273.64	799.45	1.41	-22.20	22.24	0.00	0.00	0.00
900.00	3.00	273.64	899.31	1.74	-27.42	27.48	0.00	0.00	0.00
1,000.00	3.00	273.64	999.18	2.08	-32.64	32.71	0.00	0.00	0.00
1,100.00	3.00	273.64	1,099.04	2.41	-37.87	37.94	0.00	0.00	0.00
1,200.00	3.00	273.64	1,198.90	2.74	-43.09	43.18	0.00	0.00	0.00
GREEN RIVER									
1,238.15	3.00	273.64	1,237.00	2.87	-45.08	45.17	0.00	0.00	0.00
1,300.00	3.00	273.64	1,298.77	3.07	-48.31	48.41	0.00	0.00	0.00
1,400.00	3.00	273.64	1,398.63	3.41	-53.54	53.65	0.00	0.00	0.00
1,500.00	3.00	273.64	1,498.49	3.74	-58.76	58.88	0.00	0.00	0.00
1,600.00	3.00	273.64	1,598.36	4.07	-63.98	64.11	0.00	0.00	0.00
1,700.00	3.00	273.64	1,698.22	4.40	-69.21	69.35	0.00	0.00	0.00
1,800.00	3.00	273.64	1,798.08	4.73	-74.43	74.58	0.00	0.00	0.00
1,900.00	3.00	273.64	1,897.94	5.07	-79.65	79.81	0.00	0.00	0.00
2,000.00	3.00	273.64	1,997.81	5.40	-84.88	85.05	0.00	0.00	0.00
8 5/8"									
2,002.20	3.00	273.64	2,000.00	5.41	-84.99	85.16	0.00	0.00	0.00
2,100.00	3.00	273.64	2,097.67	5.73	-90.10	90.28	0.00	0.00	0.00
Start DLS 3.00 TFO 0.00									
2,102.33	3.00	273.64	2,100.00	5.74	-90.22	90.40	0.00	0.00	0.00
2,200.00	5.93	273.64	2,197.36	6.22	-97.81	98.01	3.00	3.00	0.00
2,300.00	8.93	273.64	2,296.51	7.04	-110.71	110.94	3.00	3.00	0.00
2,400.00	11.93	273.64	2,394.85	8.19	-128.78	129.04	3.00	3.00	0.00
2,500.00	14.93	273.64	2,492.10	9.66	-151.95	152.26	3.00	3.00	0.00
2,600.00	17.93	273.64	2,588.01	11.46	-180.18	180.54	3.00	3.00	0.00
Start 1958.04 hold at 2668.98 MD									
2,668.98	20.00	273.64	2,653.24	12.88	-202.55	202.96	3.00	3.00	0.00
2,700.00	20.00	273.64	2,682.39	13.55	-213.14	213.57	0.00	0.00	0.00
2,800.00	20.00	273.64	2,776.36	15.72	-247.27	247.77	0.00	0.00	0.00
2,900.00	20.00	273.64	2,870.33	17.89	-281.40	281.97	0.00	0.00	0.00
3,000.00	20.00	273.64	2,964.30	20.06	-315.53	316.17	0.00	0.00	0.00
3,100.00	20.00	273.64	3,058.27	22.23	-349.67	350.37	0.00	0.00	0.00
3,200.00	20.00	273.64	3,152.23	24.40	-383.80	384.57	0.00	0.00	0.00
3,300.00	20.00	273.64	3,246.20	26.57	-417.93	418.77	0.00	0.00	0.00
3,400.00	20.00	273.64	3,340.17	28.74	-452.06	452.98	0.00	0.00	0.00
3,500.00	20.00	273.64	3,434.14	30.91	-486.20	487.18	0.00	0.00	0.00
3,600.00	20.00	273.64	3,528.11	33.08	-520.33	521.38	0.00	0.00	0.00
3,700.00	20.00	273.64	3,622.08	35.24	-554.46	555.58	0.00	0.00	0.00
3,800.00	20.00	273.64	3,716.05	37.41	-588.59	589.78	0.00	0.00	0.00
3,900.00	20.00	273.64	3,810.02	39.58	-622.73	623.98	0.00	0.00	0.00
4,000.00	20.00	273.64	3,903.99	41.75	-656.86	658.18	0.00	0.00	0.00
4,100.00	20.00	273.64	3,997.96	43.92	-690.99	692.38	0.00	0.00	0.00
4,200.00	20.00	273.64	4,091.93	46.09	-725.12	726.59	0.00	0.00	0.00
4,300.00	20.00	273.64	4,185.90	48.26	-759.25	760.79	0.00	0.00	0.00
WASATCH									

Anadarko Petroleum Corporation

Weatherford International Ltd.

Planning Report

Weatherford

Database:	EDM 2003.21 Single User Db	**Local Co-ordinate Reference:**	Well BONANZA 1023-5J3AS
Company:	ANADARKO PETROLEUM CORP.	**TVD Reference:**	WELL @ 5311.00ft (Original Well Elev)
Project:	UINTAH COUNTY, UTAH (nad 27)	**MD Reference:**	WELL @ 5311.00ft (Original Well Elev)
Site:	Bonanza 1023-5I	**North Reference:**	True
Well:	BONANZA 1023-5J3AS	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BONANZA 1023-5J3AS		
Design:	PLAN #1 4-28-10 RHS		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,315.01	20.00	273.64	4,200.00	48.59	-764.38	765.92	0.00	0.00	0.00
4,400.00	20.00	273.64	4,279.87	50.43	-793.39	794.99	0.00	0.00	0.00
4,500.00	20.00	273.64	4,373.84	52.60	-827.52	829.19	0.00	0.00	0.00
4,600.00	20.00	273.64	4,467.81	54.77	-861.65	863.39	0.00	0.00	0.00
Start Drop -2.00									
4,627.03	20.00	273.64	4,493.21	55.35	-870.88	872.63	0.00	0.00	0.00
4,700.00	18.54	273.64	4,562.09	56.88	-894.91	896.72	2.00	-2.00	0.00
4,800.00	16.54	273.64	4,657.43	58.79	-924.99	926.85	2.00	-2.00	0.00
4,900.00	14.54	273.64	4,753.77	60.49	-951.72	953.64	2.00	-2.00	0.00
5,000.00	12.54	273.64	4,850.99	61.98	-975.09	977.05	2.00	-2.00	0.00
5,100.00	10.54	273.64	4,948.96	63.25	-995.05	997.06	2.00	-2.00	0.00
5,200.00	8.54	273.64	5,047.57	64.30	-1,011.59	1,013.63	2.00	-2.00	0.00
5,300.00	6.54	273.64	5,146.70	65.13	-1,024.68	1,026.75	2.00	-2.00	0.00
5,400.00	4.54	273.64	5,246.23	65.74	-1,034.32	1,036.41	2.00	-2.00	0.00
5,500.00	2.54	273.64	5,346.04	66.13	-1,040.48	1,042.58	2.00	-2.00	0.00
5,600.00	0.54	273.64	5,446.00	66.30	-1,043.16	1,045.27	2.00	-2.00	0.00
Start 2939.00 hold at 5627.01 MD									
5,627.01	0.00	0.00	5,473.00	66.31	-1,043.29	1,045.39	2.00	-2.00	0.00
5,700.00	0.00	0.00	5,545.99	66.31	-1,043.29	1,045.39	0.00	0.00	0.00
5,800.00	0.00	0.00	5,645.99	66.31	-1,043.29	1,045.39	0.00	0.00	0.00
5,900.00	0.00	0.00	5,745.99	66.31	-1,043.29	1,045.39	0.00	0.00	0.00
6,000.00	0.00	0.00	5,845.99	66.31	-1,043.29	1,045.39	0.00	0.00	0.00
6,100.00	0.00	0.00	5,945.99	66.31	-1,043.29	1,045.39	0.00	0.00	0.00
6,200.00	0.00	0.00	6,045.99	66.31	-1,043.29	1,045.39	0.00	0.00	0.00
6,300.00	0.00	0.00	6,145.99	66.31	-1,043.29	1,045.39	0.00	0.00	0.00
6,400.00	0.00	0.00	6,245.99	66.31	-1,043.29	1,045.39	0.00	0.00	0.00
6,500.00	0.00	0.00	6,345.99	66.31	-1,043.29	1,045.39	0.00	0.00	0.00
6,600.00	0.00	0.00	6,445.99	66.31	-1,043.29	1,045.39	0.00	0.00	0.00
6,700.00	0.00	0.00	6,545.99	66.31	-1,043.29	1,045.39	0.00	0.00	0.00
6,800.00	0.00	0.00	6,645.99	66.31	-1,043.29	1,045.39	0.00	0.00	0.00
6,900.00	0.00	0.00	6,745.99	66.31	-1,043.29	1,045.39	0.00	0.00	0.00
7,000.00	0.00	0.00	6,845.99	66.31	-1,043.29	1,045.39	0.00	0.00	0.00
7,100.00	0.00	0.00	6,945.99	66.31	-1,043.29	1,045.39	0.00	0.00	0.00
7,200.00	0.00	0.00	7,045.99	66.31	-1,043.29	1,045.39	0.00	0.00	0.00
7,300.00	0.00	0.00	7,145.99	66.31	-1,043.29	1,045.39	0.00	0.00	0.00
MESAVERDE									
7,395.01	0.00	0.00	7,241.00	66.31	-1,043.29	1,045.39	0.00	0.00	0.00
7,400.00	0.00	0.00	7,245.99	66.31	-1,043.29	1,045.39	0.00	0.00	0.00
7,500.00	0.00	0.00	7,345.99	66.31	-1,043.29	1,045.39	0.00	0.00	0.00
7,600.00	0.00	0.00	7,445.99	66.31	-1,043.29	1,045.39	0.00	0.00	0.00
7,700.00	0.00	0.00	7,545.99	66.31	-1,043.29	1,045.39	0.00	0.00	0.00
7,800.00	0.00	0.00	7,645.99	66.31	-1,043.29	1,045.39	0.00	0.00	0.00
7,900.00	0.00	0.00	7,745.99	66.31	-1,043.29	1,045.39	0.00	0.00	0.00
8,000.00	0.00	0.00	7,845.99	66.31	-1,043.29	1,045.39	0.00	0.00	0.00
8,100.00	0.00	0.00	7,945.99	66.31	-1,043.29	1,045.39	0.00	0.00	0.00
8,200.00	0.00	0.00	8,045.99	66.31	-1,043.29	1,045.39	0.00	0.00	0.00
8,300.00	0.00	0.00	8,145.99	66.31	-1,043.29	1,045.39	0.00	0.00	0.00
8,400.00	0.00	0.00	8,245.99	66.31	-1,043.29	1,045.39	0.00	0.00	0.00
8,500.00	0.00	0.00	8,345.99	66.31	-1,043.29	1,045.39	0.00	0.00	0.00
TD at 8566.01 - PBHL_BONANZA 1023-5J3AS(1690 FSL 2100 FEL)									
8,566.01	0.00	0.00	8,412.00	66.31	-1,043.29	1,045.39	0.00	0.00	0.00

Anadarko Petroleum Corporation

Weatherford International Ltd.

Planning Report

Weatherford

Database:	EDM 2003.21 Single User Db	**Local Co-ordinate Reference:**	Well BONANZA 1023-5J3AS
Company:	ANADARKO PETROLEUM CORP.	**TVD Reference:**	WELL @ 5311.00ft (Original Well Elev)
Project:	UINTAH COUNTY, UTAH (nad 27)	**MD Reference:**	WELL @ 5311.00ft (Original Well Elev)
Site:	Bonanza 1023-5I	**North Reference:**	True
Well:	BONANZA 1023-5J3AS	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BONANZA 1023-5J3AS		
Design:	PLAN #1 4-28-10 RHS		

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
PBHL_BONANZA 10 - plan hits target center - Circle (radius 25.00)	0.00	0.00	8,412.00	66.31	-1,043.29	14,521,367.18	2,103,211.18	39° 58' 31.379 N	109° 20' 53.304 W

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
2,002.20	2,000.00	8 5/8"	8.62	11.00

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,238.15	1,237.00	GREEN RIVER			
4,315.01	4,200.00	WASATCH			
7,395.01	7,241.00	MESAVERDE			

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
300.00	300.00	0.00	0.00	Start Build 2.00
450.00	449.93	0.25	-3.92	Start 1652.33 hold at 450.00 MD
2,102.33	2,100.00	5.74	-90.22	Start DLS 3.00 TFO 0.00
2,668.98	2,653.24	12.88	-202.55	Start 1958.04 hold at 2668.98 MD
4,627.03	4,493.21	55.35	-870.88	Start Drop -2.00
5,627.01	5,473.00	66.31	-1,043.29	Start 2939.00 hold at 5627.01 MD
8,566.01	8,412.00	66.31	-1,043.29	TD at 8566.01

ANADARKO PETROLEUM CORP.

UINTAH COUNTY, UTAH (nad 27)
Bonanza 1023-5I
BONANZA 1023-5J3AS

BONANZA 1023-5J3AS
PLAN #1 4-28-10 RHS

Anticollision Report

28 April, 2010

RECEIVED: October 17, 2011

Weatherford International Ltd.

Anticollision Report

Company:	ANADARKO PETROLEUM CORP.	**Local Co-ordinate Reference:**	Well BONANZA 1023-5J3AS
Project:	UINTAH COUNTY, UTAH (nad 27)	**TVD Reference:**	WELL @ 5311.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-5I	**MD Reference:**	WELL @ 5311.00ft (Original Well Elev)
Site Error:	0.00ft	**North Reference:**	True
Reference Well:	BONANZA 1023-5J3AS	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00ft	**Output errors are at**	2.00 sigma
Reference Wellbore	BONANZA 1023-5J3AS	**Database:**	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 4-28-10 RHS	**Offset TVD Reference:**	Offset Datum

Reference PLAN #1 4-28-10 RHS

Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	**Error Model:**	ISCWSA
Depth Range:	0.00 to 20,000.00ft	**Scan Method:**	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 10,000.00ft	**Error Surface:**	Elliptical Conic
Warning Levels Evaluated at:	2.00 **Sigma**		

Survey Tool Program **Date** 4/28/2010

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.00	8,566.01	PLAN #1 4-28-10 RHS (BONANZA 1023-	MWD	MWD - Standard

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Bonanza 1023-5I						
BONANZA 1023-5G4DS - BONANZA 1023-5G4DS - PL/	300.00	300.00	9.89	8.79	8.965	CC, ES
BONANZA 1023-5G4DS - BONANZA 1023-5G4DS - PL/	400.00	399.91	11.65	10.11	7.542	SF
BONANZA 1023-5I1BS - BONANZA 1023-5I1BS - PLAN	300.00	300.00	19.96	18.86	18.090	CC, ES
BONANZA 1023-5I1BS - BONANZA 1023-5I1BS - PLAN	400.00	399.27	23.02	21.48	14.895	SF
BONANZA 1023-5I1CS - BONANZA 1023-5I1CS - PLAN	300.00	300.00	29.86	28.75	27.054	CC, ES
BONANZA 1023-5I1CS - BONANZA 1023-5I1CS - PLAN	450.00	447.18	38.81	37.03	21.842	SF
BONANZA 1023-5I4BS - BONANZA 1023-5I4BS - PLAN	300.00	300.00	39.75	38.65	36.203	CC, ES
BONANZA 1023-5I4BS - BONANZA 1023-5I4BS - PLAN	450.00	446.51	48.58	46.82	27.584	SF
Bonanza 1023-5PS EXISTING - Bonanza 1023-5PS EXI	0.00	9.00	50.95			
Bonanza 1023-5PS EXISTING - Bonanza 1023-5PS EXI	300.00	308.97	51.03	50.14	57.537	ES
Bonanza 1023-5PS EXISTING - Bonanza 1023-5PS EXI	2,102.33	2,108.63	141.57	133.11	16.730	SF
Southman Canyon 4-5 EXISTING - Southman Canyon 4-	230.35	216.35	34.98	34.16	42.781	CC
Southman Canyon 4-5 EXISTING - Southman Canyon 4-	300.00	285.88	35.10	33.99	31.739	ES
Southman Canyon 4-5 EXISTING - Southman Canyon 4-	2,102.33	2,085.65	131.57	122.17	13.999	SF

Offset Design Bonanza 1023-5I - BONANZA 1023-5G4DS - BONANZA 1023-5G4DS - PLAN #1 4-28-10 RHS

Offset Site Error: 0.00 ft

Survey Program: 0-MWD **Offset Well Error:** 0.00 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	61.41	4.73	8.69	9.89				
100.00	100.00	100.00	100.00	0.10	0.10	61.41	4.73	8.69	9.89	9.69	0.20	48.371	
200.00	200.00	200.00	200.00	0.33	0.33	61.41	4.73	8.69	9.89	9.24	0.65	15.126	
300.00	300.00	300.00	300.00	0.55	0.55	61.41	4.73	8.69	9.89	8.79	1.10	8.965	CC, ES
400.00	399.98	399.91	399.89	0.77	0.78	143.84	6.37	8.09	11.65	10.11	1.55	7.542	SF
450.00	449.93	449.80	449.73	0.88	0.90	140.35	8.41	7.34	13.91	12.14	1.77	7.868	
500.00	499.86	499.72	499.58	0.98	1.01	137.43	10.86	6.44	16.66	14.67	1.99	8.370	
600.00	599.73	599.56	599.28	1.21	1.24	133.78	15.77	4.64	22.24	19.80	2.44	9.103	
700.00	699.59	699.39	698.98	1.45	1.47	131.60	20.68	2.84	27.88	24.97	2.90	9.599	
800.00	799.45	799.23	798.68	1.68	1.71	130.15	25.58	1.05	33.54	30.17	3.37	9.954	
900.00	899.31	899.07	898.38	1.92	1.95	129.12	30.49	-0.75	39.22	35.38	3.84	10.219	
1,000.00	999.18	998.90	998.08	2.16	2.19	128.35	35.39	-2.55	44.91	40.60	4.31	10.424	
1,100.00	1,099.04	1,098.74	1,097.78	2.41	2.43	127.76	40.30	-4.35	50.60	45.82	4.78	10.586	
1,200.00	1,198.90	1,198.57	1,197.48	2.65	2.67	127.29	45.21	-6.15	56.30	51.05	5.25	10.719	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corporation

Weatherford International Ltd.

Anticollision Report

Weatherford

Company:	ANADARKO PETROLEUM CORP.	**Local Co-ordinate Reference:**	Well BONANZA 1023-5J3AS
Project:	UINTAH COUNTY, UTAH (nad 27)	**TVD Reference:**	WELL @ 5311.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-5I	**MD Reference:**	WELL @ 5311.00ft (Original Well Elev)
Site Error:	0.00ft	**North Reference:**	True
Reference Well:	BONANZA 1023-5J3AS	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00ft	**Output errors are at**	2.00 sigma
Reference Wellbore	BONANZA 1023-5J3AS	**Database:**	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 4-28-10 RHS	**Offset TVD Reference:**	Offset Datum

Offset Design Bonanza 1023-5I - BONANZA 1023-5G4DS - BONANZA 1023-5G4DS - PLAN #1 4-28-10 RHS

Offset Site Error: 0.00 ft

Survey Program: 0-MWD

Offset Well Error: 0.00 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
1,300.00	1,298.77	1,298.41	1,297.18	2.89	2.91	126.90	50.11	-7.95	62.01	56.28	5.73	10.829	
1,400.00	1,398.63	1,398.25	1,396.88	3.14	3.15	126.58	55.02	-9.74	67.71	61.51	6.20	10.921	
1,500.00	1,498.49	1,498.08	1,496.58	3.38	3.39	126.30	59.92	-11.54	73.42	66.74	6.67	11.000	
1,600.00	1,598.36	1,597.92	1,596.28	3.62	3.63	126.07	64.83	-13.34	79.12	71.97	7.15	11.067	
1,700.00	1,698.22	1,697.76	1,695.98	3.87	3.87	125.87	69.73	-15.14	84.83	77.21	7.62	11.127	
1,800.00	1,798.08	1,797.59	1,795.68	4.11	4.12	125.69	74.64	-16.94	90.54	82.44	8.10	11.179	
1,900.00	1,897.94	1,897.43	1,895.38	4.36	4.36	125.54	79.55	-18.73	96.25	87.68	8.58	11.225	
2,000.00	1,997.81	1,997.27	1,995.08	4.60	4.60	125.40	84.45	-20.53	101.96	92.91	9.05	11.266	
2,102.33	2,100.00	2,099.43	2,097.10	4.85	4.85	125.27	89.47	-22.37	107.81	98.27	9.54	11.304	
2,200.00	2,197.36	2,194.30	2,191.73	5.11	5.09	125.21	95.78	-24.69	115.76	105.75	10.01	11.566	
2,300.00	2,296.51	2,290.23	2,286.95	5.41	5.36	124.99	106.60	-28.65	129.37	118.84	10.53	12.285	
2,400.00	2,394.85	2,384.89	2,380.23	5.75	5.67	124.62	121.66	-34.17	148.46	137.35	11.10	13.373	
2,500.00	2,492.10	2,477.89	2,470.99	6.15	6.01	124.14	140.66	-41.13	172.88	161.15	11.73	14.740	
2,600.00	2,588.01	2,568.90	2,558.75	6.61	6.39	123.56	163.25	-49.41	202.48	190.05	12.42	16.298	
2,668.98	2,653.24	2,630.35	2,617.32	6.98	6.67	123.11	180.72	-55.81	225.81	212.87	12.95	17.442	
2,700.00	2,682.39	2,657.65	2,643.14	7.15	6.81	123.15	189.04	-58.86	236.93	223.72	13.21	17.939	
2,800.00	2,776.36	2,749.34	2,729.34	7.73	7.29	122.96	218.38	-69.62	273.57	259.47	14.10	19.398	
2,900.00	2,870.33	2,842.36	2,816.75	8.33	7.80	122.79	248.26	-80.56	310.28	295.24	15.04	20.633	
3,000.00	2,964.30	2,935.37	2,904.15	8.96	8.33	122.65	278.13	-91.51	346.99	330.99	16.00	21.681	
3,100.00	3,058.27	3,028.39	2,991.56	9.59	8.87	122.54	308.00	-102.46	383.70	366.71	17.00	22.576	
3,200.00	3,152.23	3,121.40	3,078.96	10.24	9.43	122.45	337.88	-113.41	420.42	402.41	18.01	23.345	
3,300.00	3,246.20	3,214.42	3,166.37	10.90	9.99	122.37	367.75	-124.35	457.13	438.09	19.04	24.009	
3,400.00	3,340.17	3,307.43	3,253.77	11.57	10.57	122.31	397.62	-135.30	493.84	473.76	20.09	24.587	
3,500.00	3,434.14	3,400.45	3,341.17	12.24	11.15	122.25	427.50	-146.25	530.56	509.41	21.14	25.092	
3,600.00	3,528.11	3,493.46	3,428.58	12.92	11.73	122.21	457.37	-157.20	567.27	545.06	22.22	25.535	
3,700.00	3,622.08	3,586.48	3,515.98	13.61	12.32	122.16	487.24	-168.14	603.99	580.69	23.30	25.928	
3,800.00	3,716.05	3,679.49	3,603.39	14.30	12.92	122.12	517.12	-179.09	640.70	616.32	24.38	26.276	
3,900.00	3,810.02	3,772.51	3,690.79	14.99	13.52	122.09	546.99	-190.04	677.42	651.94	25.48	26.587	
4,000.00	3,903.99	3,865.53	3,778.20	15.69	14.12	122.06	576.86	-200.99	714.13	687.55	26.58	26.866	
4,100.00	3,997.96	3,958.54	3,865.60	16.39	14.73	122.03	606.74	-211.94	750.85	723.16	27.69	27.118	
4,200.00	4,091.93	4,051.56	3,953.01	17.09	15.33	122.01	636.61	-222.88	787.56	758.76	28.80	27.345	
4,300.00	4,185.90	4,144.57	4,040.41	17.80	15.94	121.99	666.48	-233.83	824.28	794.36	29.92	27.552	
4,400.00	4,279.87	4,237.59	4,127.82	18.50	16.56	121.97	696.36	-244.78	861.00	829.96	31.04	27.740	
4,500.00	4,373.84	4,330.60	4,215.22	19.21	17.17	121.95	726.23	-255.73	897.71	865.55	32.16	27.911	
4,600.00	4,467.81	4,423.62	4,302.63	19.92	17.78	121.93	756.10	-266.67	934.43	901.14	33.29	28.069	
4,627.03	4,493.21	4,448.76	4,326.25	20.11	17.95	121.92	764.18	-269.63	944.35	910.76	33.60	28.109	
4,700.00	4,562.09	4,516.80	4,390.19	20.56	18.40	122.34	786.03	-277.64	970.69	936.26	34.43	28.195	
4,800.00	4,657.43	4,610.55	4,478.28	21.06	19.03	122.73	816.14	-288.68	1,005.27	969.78	35.49	28.328	
4,900.00	4,753.77	4,704.77	4,566.82	21.51	19.65	122.92	846.40	-299.77	1,038.10	1,001.59	36.51	28.431	
5,000.00	4,850.99	4,807.46	4,663.41	21.91	20.30	122.90	879.13	-311.76	1,069.08	1,031.56	37.52	28.497	
5,100.00	4,948.96	4,927.53	4,777.61	22.27	20.89	122.75	913.94	-324.52	1,096.66	1,058.24	38.42	28.543	
5,200.00	5,047.57	5,050.15	4,895.72	22.57	21.43	122.59	944.82	-335.83	1,120.28	1,081.04	39.24	28.548	
5,300.00	5,146.70	5,175.02	5,017.34	22.83	21.92	122.41	971.37	-345.56	1,139.83	1,099.86	39.97	28.516	
5,400.00	5,246.23	5,301.81	5,141.97	23.05	22.35	122.21	993.20	-353.56	1,155.20	1,114.60	40.60	28.453	
5,500.00	5,346.04	5,430.15	5,269.05	23.22	22.70	122.00	1,010.01	-359.72	1,166.30	1,125.18	41.12	28.364	
5,600.00	5,446.00	5,559.64	5,397.93	23.34	22.99	121.76	1,021.53	-363.95	1,173.08	1,131.55	41.53	28.246	
5,627.01	5,473.00	5,594.74	5,432.97	23.37	23.06	35.33	1,023.71	-364.74	1,174.16	1,132.53	41.63	28.207	
5,700.00	5,545.99	5,689.86	5,527.99	23.44	23.20	35.16	1,027.60	-366.17	1,175.96	1,134.11	41.85	28.098	
5,800.00	5,645.99	5,807.88	5,645.99	23.55	23.33	35.12	1,028.57	-366.52	1,176.41	1,134.30	42.11	27.934	
5,900.00	5,745.99	5,907.88	5,745.99	23.66	23.45	35.12	1,028.57	-366.52	1,176.41	1,134.05	42.36	27.770	
6,000.00	5,845.99	6,007.88	5,845.99	23.77	23.56	35.12	1,028.57	-366.52	1,176.41	1,133.80	42.61	27.606	
6,100.00	5,945.99	6,107.88	5,945.99	23.89	23.68	35.12	1,028.57	-366.52	1,176.41	1,133.54	42.87	27.441	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corporation

Weatherford International Ltd.

Anticollision Report

Weatherford

Company:	ANADARKO PETROLEUM CORP.	**Local Co-ordinate Reference:**	Well BONANZA 1023-5J3AS
Project:	UINTAH COUNTY, UTAH (nad 27)	**TVD Reference:**	WELL @ 5311.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-5I	**MD Reference:**	WELL @ 5311.00ft (Original Well Elev)
Site Error:	0.00ft	**North Reference:**	True
Reference Well:	BONANZA 1023-5J3AS	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00ft	**Output errors are at**	2.00 sigma
Reference Wellbore	BONANZA 1023-5J3AS	**Database:**	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 4-28-10 RHS	**Offset TVD Reference:**	Offset Datum

Offset Design Bonanza 1023-5I - BONANZA 1023-5G4DS - BONANZA 1023-5G4DS - PLAN #1 4-28-10 RHS

Offset Site Error: 0.00 ft

Survey Program: 0-MWD

Offset Well Error: 0.00 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
6,200.00	6,045.99	6,207.88	6,045.99	24.00	23.79	35.12	1,028.57	-366.52	1,176.41	1,133.29	43.13	27.277	
6,300.00	6,145.99	6,307.88	6,145.99	24.12	23.91	35.12	1,028.57	-366.52	1,176.41	1,133.02	43.39	27.112	
6,400.00	6,245.99	6,407.88	6,245.99	24.24	24.03	35.12	1,028.57	-366.52	1,176.41	1,132.76	43.65	26.948	
6,500.00	6,345.99	6,507.88	6,345.99	24.36	24.16	35.12	1,028.57	-366.52	1,176.41	1,132.49	43.92	26.784	
6,600.00	6,445.99	6,607.88	6,445.99	24.48	24.28	35.12	1,028.57	-366.52	1,176.41	1,132.22	44.19	26.620	
6,700.00	6,545.99	6,707.88	6,545.99	24.61	24.40	35.12	1,028.57	-366.52	1,176.41	1,131.95	44.47	26.456	
6,800.00	6,645.99	6,807.88	6,645.99	24.73	24.53	35.12	1,028.57	-366.52	1,176.41	1,131.67	44.74	26.293	
6,900.00	6,745.99	6,907.88	6,745.99	24.86	24.66	35.12	1,028.57	-366.52	1,176.41	1,131.39	45.02	26.130	
7,000.00	6,845.99	7,007.88	6,845.99	24.98	24.79	35.12	1,028.57	-366.52	1,176.41	1,131.11	45.30	25.967	
7,100.00	6,945.99	7,107.88	6,945.99	25.11	24.92	35.12	1,028.57	-366.52	1,176.41	1,130.83	45.59	25.805	
7,200.00	7,045.99	7,207.88	7,045.99	25.24	25.05	35.12	1,028.57	-366.52	1,176.41	1,130.54	45.88	25.644	
7,300.00	7,145.99	7,307.88	7,145.99	25.37	25.18	35.12	1,028.57	-366.52	1,176.41	1,130.25	46.17	25.483	
7,400.00	7,245.99	7,407.88	7,245.99	25.51	25.32	35.12	1,028.57	-366.52	1,176.41	1,129.96	46.46	25.322	
7,500.00	7,345.99	7,507.88	7,345.99	25.64	25.45	35.12	1,028.57	-366.52	1,176.41	1,129.66	46.75	25.163	
7,600.00	7,445.99	7,607.88	7,445.99	25.78	25.59	35.12	1,028.57	-366.52	1,176.41	1,129.36	47.05	25.004	
7,700.00	7,545.99	7,707.88	7,545.99	25.91	25.73	35.12	1,028.57	-366.52	1,176.41	1,129.06	47.35	24.846	
7,800.00	7,645.99	7,807.88	7,645.99	26.05	25.87	35.12	1,028.57	-366.52	1,176.41	1,128.76	47.65	24.688	
7,900.00	7,745.99	7,907.88	7,745.99	26.19	26.01	35.12	1,028.57	-366.52	1,176.41	1,128.46	47.96	24.531	
8,000.00	7,845.99	8,007.88	7,845.99	26.33	26.15	35.12	1,028.57	-366.52	1,176.41	1,128.15	48.26	24.376	
8,100.00	7,945.99	8,107.88	7,945.99	26.47	26.29	35.12	1,028.57	-366.52	1,176.41	1,127.84	48.57	24.221	
8,200.00	8,045.99	8,207.88	8,045.99	26.61	26.44	35.12	1,028.57	-366.52	1,176.41	1,127.53	48.88	24.066	
8,300.00	8,145.99	8,307.88	8,145.99	26.76	26.58	35.12	1,028.57	-366.52	1,176.41	1,127.22	49.20	23.913	
8,400.00	8,245.99	8,407.88	8,245.99	26.90	26.73	35.12	1,028.57	-366.52	1,176.41	1,126.90	49.51	23.761	
8,500.00	8,345.99	8,507.88	8,345.99	27.05	26.88	35.12	1,028.57	-366.52	1,176.41	1,126.59	49.83	23.610	
8,566.01	8,412.00	8,573.88	8,412.00	27.14	26.97	35.12	1,028.57	-366.52	1,176.41	1,126.38	50.04	23.510	

Anadarko Petroleum Corporation

Weatherford International Ltd.

Anticollision Report

Weatherford

Company:	ANADARKO PETROLEUM CORP.	**Local Co-ordinate Reference:**	Well BONANZA 1023-5J3AS
Project:	UINTAH COUNTY, UTAH (nad 27)	**TVD Reference:**	WELL @ 5311.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-5I	**MD Reference:**	WELL @ 5311.00ft (Original Well Elev)
Site Error:	0.00ft	**North Reference:**	True
Reference Well:	BONANZA 1023-5J3AS	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00ft	**Output errors are at**	2.00 sigma
Reference Wellbore	BONANZA 1023-5J3AS	**Database:**	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 4-28-10 RHS	**Offset TVD Reference:**	Offset Datum

Offset Design Bonanza 1023-5I - BONANZA 1023-5I1BS - BONANZA 1023-5I1BS - PLAN #1 4-28-10 RHS

Offset Site Error: 0.00 ft

Survey Program: 0-MWD

Offset Well Error: 0.00 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	60.49	9.83	17.37	19.96				
100.00	100.00	100.00	100.00	0.10	0.10	60.49	9.83	17.37	19.96	19.76	0.20	97.607	
200.00	200.00	200.00	200.00	0.33	0.33	60.49	9.83	17.37	19.96	19.31	0.65	30.523	
300.00	300.00	300.00	300.00	0.55	0.55	60.49	9.83	17.37	19.96	18.86	1.10	18.090	CC, ES
400.00	399.98	399.27	399.25	0.77	0.77	147.51	11.20	18.42	23.02	21.48	1.55	14.895	SF
450.00	449.93	448.73	448.66	0.88	0.89	148.11	12.89	19.73	26.84	25.07	1.77	15.131	
500.00	499.86	498.50	498.37	0.98	1.00	148.67	14.96	21.31	31.45	29.46	1.99	15.782	
600.00	599.73	598.08	597.81	1.21	1.23	149.41	19.09	24.49	40.67	38.24	2.43	16.738	
700.00	699.59	697.65	697.24	1.45	1.46	149.87	23.22	27.67	49.89	47.01	2.87	17.363	
800.00	799.45	797.22	796.68	1.68	1.70	150.19	27.35	30.84	59.11	55.79	3.32	17.799	
900.00	899.31	896.80	896.12	1.92	1.94	150.43	31.49	34.02	68.33	64.56	3.77	18.119	
1,000.00	999.18	996.37	995.55	2.16	2.17	150.60	35.62	37.19	77.56	73.34	4.22	18.363	
1,100.00	1,099.04	1,095.94	1,094.99	2.41	2.41	150.74	39.75	40.37	86.79	82.11	4.68	18.554	
1,200.00	1,198.90	1,195.52	1,194.43	2.65	2.65	150.86	43.88	43.55	96.01	90.88	5.13	18.709	
1,300.00	1,298.77	1,295.09	1,293.86	2.89	2.89	150.95	48.01	46.72	105.24	99.65	5.59	18.835	
1,400.00	1,398.63	1,394.66	1,393.30	3.14	3.13	151.03	52.14	49.90	114.47	108.42	6.04	18.941	
1,500.00	1,498.49	1,494.24	1,492.74	3.38	3.37	151.10	56.28	53.07	123.69	117.19	6.50	19.031	
1,600.00	1,598.36	1,593.81	1,592.17	3.62	3.61	151.15	60.41	56.25	132.92	125.97	6.96	19.108	
1,700.00	1,698.22	1,693.38	1,691.61	3.87	3.85	151.20	64.54	59.43	142.15	134.74	7.41	19.175	
1,800.00	1,798.08	1,792.96	1,791.05	4.11	4.09	151.25	68.67	62.60	151.38	143.51	7.87	19.233	
1,900.00	1,897.94	1,892.53	1,890.48	4.36	4.33	151.29	72.80	65.78	160.60	152.28	8.33	19.285	
2,000.00	1,997.81	1,992.10	1,989.92	4.60	4.58	151.32	76.93	68.95	169.83	161.05	8.79	19.331	
2,102.33	2,100.00	2,093.87	2,091.55	4.85	4.82	151.35	81.16	72.20	179.28	170.02	9.25	19.373	
2,200.00	2,197.36	2,182.94	2,180.35	5.11	5.05	151.22	86.55	76.35	192.54	182.87	9.67	19.903	
2,300.00	2,296.51	2,272.05	2,268.78	5.41	5.31	151.03	95.23	83.02	214.66	204.55	10.11	21.242	
2,400.00	2,394.85	2,358.13	2,353.63	5.75	5.59	150.78	106.71	91.84	245.11	234.57	10.53	23.271	
2,500.00	2,492.10	2,440.41	2,434.04	6.15	5.88	150.45	120.50	102.45	283.50	272.55	10.95	25.879	
2,600.00	2,588.01	2,518.26	2,509.36	6.61	6.19	150.02	136.07	114.41	329.39	318.01	11.37	28.961	
2,668.98	2,653.24	2,569.12	2,558.12	6.98	6.42	149.66	147.55	123.24	365.13	353.47	11.66	31.304	
2,700.00	2,682.39	2,591.31	2,579.26	7.15	6.52	149.77	152.88	127.33	382.05	370.23	11.83	32.302	
2,800.00	2,776.36	2,661.28	2,645.41	7.73	6.86	149.94	170.95	141.23	438.38	426.00	12.37	35.427	
2,900.00	2,870.33	2,743.06	2,722.26	8.33	7.30	150.00	193.13	158.27	495.93	482.96	12.96	38.260	
3,000.00	2,964.30	2,824.84	2,799.11	8.96	7.75	150.05	215.30	175.32	553.48	539.92	13.56	40.823	
3,100.00	3,058.27	2,906.62	2,875.96	9.59	8.21	150.09	237.47	192.36	611.03	596.86	14.17	43.127	
3,200.00	3,152.23	2,988.40	2,952.81	10.24	8.69	150.12	259.64	209.40	668.58	653.79	14.79	45.197	
3,300.00	3,246.20	3,070.17	3,029.66	10.90	9.17	150.15	281.81	226.45	726.13	710.70	15.43	47.063	
3,400.00	3,340.17	3,151.95	3,106.50	11.57	9.66	150.17	303.98	243.49	783.68	767.61	16.07	48.753	
3,500.00	3,434.14	3,233.73	3,183.35	12.24	10.16	150.19	326.16	260.53	841.23	824.50	16.73	50.288	
3,600.00	3,528.11	3,315.51	3,260.20	12.92	10.66	150.21	348.33	277.58	898.78	881.39	17.39	51.684	
3,700.00	3,622.08	3,397.29	3,337.05	13.61	11.17	150.22	370.50	294.62	956.33	938.28	18.06	52.957	
3,800.00	3,716.05	3,479.07	3,413.90	14.30	11.68	150.23	392.67	311.66	1,013.88	995.15	18.73	54.119	
3,900.00	3,810.02	3,560.85	3,490.75	14.99	12.20	150.25	414.84	328.71	1,071.44	1,052.02	19.42	55.185	
4,000.00	3,903.99	3,642.63	3,567.60	15.69	12.72	150.26	437.01	345.75	1,128.99	1,108.89	20.10	56.165	
4,100.00	3,997.96	3,724.41	3,644.45	16.39	13.24	150.27	459.18	362.79	1,186.54	1,165.75	20.79	57.068	
4,200.00	4,091.93	3,806.19	3,721.30	17.09	13.77	150.27	481.36	379.84	1,244.09	1,222.60	21.49	57.902	
4,300.00	4,185.90	3,887.97	3,798.15	17.80	14.30	150.28	503.53	396.88	1,301.64	1,279.46	22.18	58.673	
4,400.00	4,279.87	3,969.75	3,875.00	18.50	14.83	150.29	525.70	413.92	1,359.19	1,336.31	22.89	59.388	
4,500.00	4,373.84	4,051.52	3,951.84	19.21	15.36	150.30	547.87	430.97	1,416.74	1,393.15	23.59	60.052	
4,600.00	4,467.81	4,133.30	4,028.69	19.92	15.89	150.30	570.04	448.01	1,474.29	1,449.99	24.30	60.671	
4,627.03	4,493.21	4,155.41	4,049.46	20.11	16.04	150.30	576.03	452.62	1,489.85	1,465.36	24.49	60.831	
4,700.00	4,562.09	4,215.54	4,105.97	20.56	16.43	150.78	592.34	465.15	1,531.18	1,506.09	25.09	61.034	
4,800.00	4,657.43	4,299.39	4,184.77	21.06	16.98	151.32	615.07	482.62	1,585.63	1,559.77	25.86	61.309	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corporation

Weatherford International Ltd.

Anticollision Report

Weatherford

Company:	ANADARKO PETROLEUM CORP.	**Local Co-ordinate Reference:**	Well BONANZA 1023-5J3AS
Project:	UINTAH COUNTY, UTAH (nad 27)	**TVD Reference:**	WELL @ 5311.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-5I	**MD Reference:**	WELL @ 5311.00ft (Original Well Elev)
Site Error:	0.00ft	**North Reference:**	True
Reference Well:	BONANZA 1023-5J3AS	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00ft	**Output errors are at**	2.00 sigma
Reference Wellbore	BONANZA 1023-5J3AS	**Database:**	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 4-28-10 RHS	**Offset TVD Reference:**	Offset Datum

Offset Design Bonanza 1023-5I - BONANZA 1023-5I1BS - BONANZA 1023-5I1BS - PLAN #1 4-28-10 RHS

Offset Site Error: 0.00 ft

Survey Program: 0-MWD

Offset Well Error: 0.00 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
4,900.00	4,753.77	4,384.81	4,265.04	21.51	17.54	151.75	638.23	500.43	1,637.49	1,610.87	26.62	61.505	
5,000.00	4,850.99	4,471.70	4,346.69	21.91	18.11	152.08	661.79	518.53	1,686.71	1,659.35	27.36	61.640	
5,100.00	4,948.96	4,559.95	4,429.62	22.27	18.70	152.32	685.71	536.93	1,733.24	1,705.16	28.08	61.726	
5,200.00	5,047.57	4,649.45	4,513.73	22.57	19.29	152.47	709.98	555.58	1,777.05	1,748.28	28.77	61.772	
5,300.00	5,146.70	4,740.10	4,598.91	22.83	19.89	152.54	734.56	574.47	1,818.11	1,788.68	29.43	61.788	
5,400.00	5,246.23	4,946.64	4,795.25	23.05	20.94	152.17	785.27	613.45	1,853.72	1,823.35	30.36	61.053	
5,500.00	5,346.04	5,173.71	5,015.79	23.22	21.85	151.82	827.93	646.25	1,880.01	1,848.80	31.22	60.225	
5,600.00	5,446.00	5,410.62	5,249.67	23.34	22.57	151.53	857.53	669.00	1,896.34	1,864.39	31.94	59.366	
5,627.01	5,473.00	5,475.74	5,314.42	23.37	22.72	65.10	862.97	673.19	1,898.98	1,866.86	32.11	59.134	
5,700.00	5,545.99	5,653.03	5,491.34	23.44	23.04	64.95	871.86	680.02	1,903.08	1,870.55	32.53	58.508	
5,800.00	5,645.99	5,807.71	5,645.99	23.55	23.22	64.93	873.05	680.93	1,903.62	1,870.72	32.90	57.854	
5,900.00	5,745.99	5,907.71	5,745.99	23.66	23.33	64.93	873.05	680.93	1,903.62	1,870.41	33.21	57.320	
6,000.00	5,845.99	6,007.71	5,845.99	23.77	23.45	64.93	873.05	680.93	1,903.62	1,870.10	33.52	56.791	
6,100.00	5,945.99	6,107.71	5,945.99	23.89	23.56	64.93	873.05	680.93	1,903.62	1,869.79	33.83	56.266	
6,200.00	6,045.99	6,207.71	6,045.99	24.00	23.68	64.93	873.05	680.93	1,903.62	1,869.47	34.15	55.746	
6,300.00	6,145.99	6,307.71	6,145.99	24.12	23.80	64.93	873.05	680.93	1,903.62	1,869.15	34.47	55.230	
6,400.00	6,245.99	6,407.71	6,245.99	24.24	23.92	64.93	873.05	680.93	1,903.62	1,868.83	34.79	54.719	
6,500.00	6,345.99	6,507.71	6,345.99	24.36	24.04	64.93	873.05	680.93	1,903.62	1,868.51	35.11	54.214	
6,600.00	6,445.99	6,607.71	6,445.99	24.48	24.16	64.93	873.05	680.93	1,903.62	1,868.18	35.44	53.713	
6,700.00	6,545.99	6,707.71	6,545.99	24.61	24.29	64.93	873.05	680.93	1,903.62	1,867.85	35.77	53.218	
6,800.00	6,645.99	6,807.71	6,645.99	24.73	24.42	64.93	873.05	680.93	1,903.62	1,867.52	36.10	52.728	
6,900.00	6,745.99	6,907.71	6,745.99	24.86	24.54	64.93	873.05	680.93	1,903.62	1,867.18	36.44	52.244	
7,000.00	6,845.99	7,007.71	6,845.99	24.98	24.67	64.93	873.05	680.93	1,903.62	1,866.85	36.77	51.764	
7,100.00	6,945.99	7,107.71	6,945.99	25.11	24.80	64.93	873.05	680.93	1,903.62	1,866.51	37.11	51.291	
7,200.00	7,045.99	7,207.71	7,045.99	25.24	24.93	64.93	873.05	680.93	1,903.62	1,866.17	37.46	50.822	
7,300.00	7,145.99	7,307.71	7,145.99	25.37	25.07	64.93	873.05	680.93	1,903.62	1,865.82	37.80	50.359	
7,400.00	7,245.99	7,407.71	7,245.99	25.51	25.20	64.93	873.05	680.93	1,903.62	1,865.47	38.15	49.902	
7,500.00	7,345.99	7,507.71	7,345.99	25.64	25.34	64.93	873.05	680.93	1,903.62	1,865.13	38.50	49.450	
7,600.00	7,445.99	7,607.71	7,445.99	25.78	25.48	64.93	873.05	680.93	1,903.62	1,864.78	38.85	49.004	
7,700.00	7,545.99	7,707.71	7,545.99	25.91	25.61	64.93	873.05	680.93	1,903.62	1,864.42	39.20	48.563	
7,800.00	7,645.99	7,807.71	7,645.99	26.05	25.75	64.93	873.05	680.93	1,903.62	1,864.07	39.55	48.127	
7,900.00	7,745.99	7,907.71	7,745.99	26.19	25.89	64.93	873.05	680.93	1,903.62	1,863.71	39.91	47.697	
8,000.00	7,845.99	8,007.71	7,845.99	26.33	26.04	64.93	873.05	680.93	1,903.62	1,863.35	40.27	47.273	
8,100.00	7,945.99	8,107.71	7,945.99	26.47	26.18	64.93	873.05	680.93	1,903.62	1,862.99	40.63	46.854	
8,200.00	8,045.99	8,207.71	8,045.99	26.61	26.32	64.93	873.05	680.93	1,903.62	1,862.63	40.99	46.440	
8,300.00	8,145.99	8,307.71	8,145.99	26.76	26.47	64.93	873.05	680.93	1,903.62	1,862.27	41.35	46.031	
8,400.00	8,245.99	8,407.71	8,245.99	26.90	26.61	64.93	873.05	680.93	1,903.62	1,861.90	41.72	45.628	
8,500.00	8,345.99	8,507.71	8,345.99	27.05	26.76	64.93	873.05	680.93	1,903.62	1,861.53	42.09	45.230	
8,524.52	8,370.51	8,532.23	8,370.51	27.08	26.80	64.93	873.05	680.93	1,903.62	1,861.44	42.18	45.133	
8,566.01	8,412.00	8,542.71	8,381.00	27.14	26.81	64.93	873.05	680.93	1,903.87	1,861.60	42.27	45.038	

Anadarko Petroleum Corporation

Weatherford International Ltd.

Anticollision Report

Weatherford

Company:	ANADARKO PETROLEUM CORP.	**Local Co-ordinate Reference:**	Well BONANZA 1023-5J3AS
Project:	UINTAH COUNTY, UTAH (nad 27)	**TVD Reference:**	WELL @ 5311.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-5I	**MD Reference:**	WELL @ 5311.00ft (Original Well Elev)
Site Error:	0.00ft	**North Reference:**	True
Reference Well:	BONANZA 1023-5J3AS	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00ft	**Output errors are at**	2.00 sigma
Reference Wellbore	BONANZA 1023-5J3AS	**Database:**	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 4-28-10 RHS	**Offset TVD Reference:**	Offset Datum

Offset Design Bonanza 1023-5I - BONANZA 1023-5I1CS - BONANZA 1023-5I1CS - PLAN #1 4-28-10 RHS

Offset Site Error: 0.00 ft

Survey Program: 0-MWD

Offset Well Error: 0.00 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	60.79	14.57	26.06	29.86				
100.00	100.00	100.00	100.00	0.10	0.10	60.79	14.57	26.06	29.86	29.65	0.20	145.974	
200.00	200.00	200.00	200.00	0.33	0.33	60.79	14.57	26.06	29.86	29.20	0.65	45.648	
300.00	300.00	300.00	300.00	0.55	0.55	60.79	14.57	26.06	29.86	28.75	1.10	27.054	CC, ES
400.00	399.98	398.33	398.28	0.77	0.77	147.76	16.25	27.95	33.84	32.29	1.55	21.883	
450.00	449.93	447.18	447.03	0.88	0.89	148.34	18.34	30.29	38.81	37.03	1.78	21.842	SF
500.00	499.86	495.70	495.36	0.98	1.01	148.72	21.23	33.54	45.38	43.38	2.00	22.650	
600.00	599.73	591.68	590.54	1.21	1.26	148.35	29.36	42.66	62.16	59.69	2.47	25.206	
700.00	699.59	685.83	683.21	1.45	1.57	147.37	40.41	55.06	83.69	80.75	2.94	28.499	
800.00	799.45	777.79	772.82	1.68	1.94	146.27	54.12	70.45	109.87	106.45	3.41	32.190	
900.00	899.31	867.20	858.90	1.92	2.38	145.24	70.20	88.48	140.54	136.65	3.89	36.092	
1,000.00	999.18	953.80	941.11	2.16	2.86	144.34	88.30	108.79	175.53	171.15	4.38	40.082	
1,100.00	1,099.04	1,045.23	1,027.04	2.41	3.44	143.57	109.08	132.11	213.20	208.33	4.87	43.777	
1,200.00	1,198.90	1,137.82	1,114.04	2.65	4.04	143.02	130.14	155.74	250.93	245.58	5.35	46.917	
1,300.00	1,298.77	1,230.40	1,201.05	2.89	4.65	142.62	151.20	179.38	288.68	282.84	5.84	49.471	
1,400.00	1,398.63	1,322.99	1,288.05	3.14	5.27	142.31	172.27	203.01	326.44	320.11	6.33	51.585	
1,500.00	1,498.49	1,415.57	1,375.05	3.38	5.89	142.06	193.33	226.65	364.20	357.38	6.82	53.364	
1,600.00	1,598.36	1,508.16	1,462.06	3.62	6.51	141.86	214.40	250.29	401.97	394.65	7.33	54.874	
1,700.00	1,698.22	1,600.74	1,549.06	3.87	7.14	141.70	235.46	273.92	439.74	431.91	7.83	56.170	
1,800.00	1,798.08	1,693.33	1,636.06	4.11	7.77	141.56	256.53	297.56	477.52	469.18	8.33	57.291	
1,900.00	1,897.94	1,785.91	1,723.06	4.36	8.40	141.44	277.59	321.19	515.30	506.45	8.84	58.272	
2,000.00	1,997.81	1,878.49	1,810.07	4.60	9.03	141.33	298.66	344.83	553.08	543.72	9.35	59.137	
2,102.33	2,100.00	1,973.24	1,899.10	4.85	9.68	141.24	320.21	369.02	591.74	581.86	9.88	59.921	
2,200.00	2,197.36	2,062.90	1,983.36	5.11	10.29	140.52	340.61	391.91	630.42	620.12	10.31	61.152	
2,300.00	2,296.51	2,152.97	2,067.99	5.41	10.91	139.98	361.10	414.90	673.68	662.94	10.75	62.692	
2,400.00	2,394.85	2,241.02	2,150.74	5.75	11.51	139.58	381.14	437.38	720.56	709.39	11.18	64.468	
2,500.00	2,492.10	2,338.77	2,242.73	6.15	12.11	139.41	403.13	462.05	770.71	759.09	11.62	66.321	
2,600.00	2,588.01	2,450.61	2,349.02	6.61	12.68	139.58	426.27	488.02	821.99	809.91	12.08	68.060	
2,668.98	2,653.24	2,528.37	2,423.59	6.98	13.05	139.82	440.93	504.47	857.81	845.42	12.39	69.217	
2,700.00	2,682.39	2,563.65	2,457.59	7.15	13.21	140.31	447.19	511.49	873.88	861.30	12.58	69.450	
2,800.00	2,776.36	2,680.36	2,570.76	7.73	13.71	141.81	466.16	532.78	923.93	910.72	13.21	69.941	
2,900.00	2,870.33	2,801.56	2,689.28	8.33	14.18	143.22	483.01	551.69	971.16	957.30	13.85	70.099	
3,000.00	2,964.30	2,927.17	2,813.01	8.96	14.58	144.57	497.38	567.81	1,015.39	1,000.88	14.51	70.000	
3,100.00	3,058.27	3,057.04	2,941.71	9.59	14.94	145.87	508.90	580.74	1,056.45	1,041.30	15.16	69.693	
3,200.00	3,152.23	3,190.96	3,075.03	10.24	15.24	147.15	517.22	590.08	1,094.20	1,078.39	15.81	69.223	
3,300.00	3,246.20	3,328.65	3,212.52	10.90	15.45	148.43	521.98	595.42	1,128.47	1,112.03	16.44	68.637	
3,400.00	3,340.17	3,456.31	3,340.17	11.57	15.60	149.59	523.03	596.60	1,159.32	1,142.27	17.04	68.029	
3,500.00	3,434.14	3,550.28	3,434.14	12.24	15.69	150.42	523.03	596.60	1,189.38	1,171.78	17.60	67.596	
3,600.00	3,528.11	3,644.25	3,528.11	12.92	15.78	151.20	523.03	596.60	1,219.66	1,201.51	18.15	67.202	
3,700.00	3,622.08	3,738.22	3,622.08	13.61	15.87	151.94	523.03	596.60	1,250.15	1,231.45	18.70	66.850	
3,800.00	3,716.05	3,832.19	3,716.05	14.30	15.97	152.66	523.03	596.60	1,280.82	1,261.57	19.25	66.536	
3,900.00	3,810.02	3,926.16	3,810.02	14.99	16.07	153.33	523.03	596.60	1,311.67	1,291.87	19.80	66.257	
4,000.00	3,903.99	4,020.13	3,903.99	15.69	16.17	153.98	523.03	596.60	1,342.67	1,322.33	20.34	66.010	
4,100.00	3,997.96	4,114.10	3,997.96	16.39	16.28	154.60	523.03	596.60	1,373.84	1,352.95	20.88	65.791	
4,200.00	4,091.93	4,208.07	4,091.93	17.09	16.38	155.19	523.03	596.60	1,405.14	1,383.72	21.42	65.597	
4,300.00	4,185.90	4,302.04	4,185.90	17.80	16.49	155.76	523.03	596.60	1,436.57	1,414.61	21.96	65.426	
4,400.00	4,279.87	4,396.01	4,279.87	18.50	16.60	156.30	523.03	596.60	1,468.13	1,445.64	22.49	65.276	
4,500.00	4,373.84	4,489.98	4,373.84	19.21	16.71	156.82	523.03	596.60	1,499.80	1,476.78	23.02	65.144	
4,600.00	4,467.81	4,583.95	4,467.81	19.92	16.83	157.32	523.03	596.60	1,531.59	1,508.03	23.55	65.028	
4,627.03	4,493.21	4,609.34	4,493.21	20.11	16.86	157.45	523.03	596.60	1,540.19	1,516.50	23.70	65.000	
4,700.00	4,562.09	4,678.23	4,562.09	20.56	16.94	157.97	523.03	596.60	1,562.65	1,538.46	24.20	64.578	
4,800.00	4,657.43	4,773.57	4,657.43	21.06	17.06	158.59	523.03	596.60	1,590.83	1,565.99	24.83	64.061	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corporation

Weatherford International Ltd.

Anticollision Report

Weatherford

Company:	ANADARKO PETROLEUM CORP.	**Local Co-ordinate Reference:**	Well BONANZA 1023-5J3AS
Project:	UINTAH COUNTY, UTAH (nad 27)	**TVD Reference:**	WELL @ 5311.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-5I	**MD Reference:**	WELL @ 5311.00ft (Original Well Elev)
Site Error:	0.00ft	**North Reference:**	True
Reference Well:	BONANZA 1023-5J3AS	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00ft	**Output errors are at**	2.00 sigma
Reference Wellbore	BONANZA 1023-5J3AS	**Database:**	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 4-28-10 RHS	**Offset TVD Reference:**	Offset Datum

Offset Design Bonanza 1023-5I - BONANZA 1023-5I1CS - BONANZA 1023-5I1CS - PLAN #1 4-28-10 RHS

Offset Site Error: 0.00 ft

Survey Program: 0-MWD

Offset Well Error: 0.00 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
4,900.00	4,753.77	4,869.91	4,753.77	21.51	17.18	159.12	523.03	596.60	1,615.93	1,590.50	25.43	63.534	
5,000.00	4,850.99	4,967.13	4,850.99	21.91	17.31	159.57	523.03	596.60	1,637.91	1,611.91	26.00	62.997	
5,100.00	4,948.96	5,065.10	4,948.96	22.27	17.44	159.94	523.03	596.60	1,656.73	1,630.20	26.53	62.451	
5,200.00	5,047.57	5,163.71	5,047.57	22.57	17.57	160.24	523.03	596.60	1,672.33	1,645.31	27.02	61.896	
5,300.00	5,146.70	5,262.84	5,146.70	22.83	17.70	160.47	523.03	596.60	1,684.70	1,657.23	27.47	61.329	
5,400.00	5,246.23	5,362.37	5,246.23	23.05	17.84	160.64	523.03	596.60	1,693.81	1,665.93	27.88	60.749	
5,500.00	5,346.04	5,462.18	5,346.04	23.22	17.97	160.75	523.03	596.60	1,699.64	1,671.39	28.25	60.155	
5,600.00	5,446.00	5,562.13	5,446.00	23.34	18.11	160.80	523.03	596.60	1,702.18	1,673.59	28.59	59.543	
5,627.01	5,473.00	5,589.14	5,473.00	23.37	18.15	74.44	523.03	596.60	1,702.30	1,673.63	28.67	59.373	
5,700.00	5,545.99	5,662.13	5,545.99	23.44	18.26	74.44	523.03	596.60	1,702.30	1,673.38	28.92	58.865	
5,800.00	5,645.99	5,762.13	5,645.99	23.55	18.40	74.44	523.03	596.60	1,702.30	1,673.04	29.26	58.173	
5,900.00	5,745.99	5,862.13	5,745.99	23.66	18.54	74.44	523.03	596.60	1,702.30	1,672.69	29.61	57.492	
6,000.00	5,845.99	5,962.13	5,845.99	23.77	18.69	74.44	523.03	596.60	1,702.30	1,672.34	29.96	56.821	
6,100.00	5,945.99	6,062.13	5,945.99	23.89	18.84	74.44	523.03	596.60	1,702.30	1,671.99	30.31	56.161	
6,200.00	6,045.99	6,162.13	6,045.99	24.00	18.99	74.44	523.03	596.60	1,702.30	1,671.63	30.67	55.512	
6,300.00	6,145.99	6,262.13	6,145.99	24.12	19.14	74.44	523.03	596.60	1,702.30	1,671.28	31.02	54.873	
6,400.00	6,245.99	6,362.13	6,245.99	24.24	19.29	74.44	523.03	596.60	1,702.30	1,670.92	31.38	54.244	
6,500.00	6,345.99	6,462.13	6,345.99	24.36	19.44	74.44	523.03	596.60	1,702.30	1,670.55	31.74	53.626	
6,600.00	6,445.99	6,562.13	6,445.99	24.48	19.60	74.44	523.03	596.60	1,702.30	1,670.19	32.11	53.019	
6,700.00	6,545.99	6,662.13	6,545.99	24.61	19.76	74.44	523.03	596.60	1,702.30	1,669.82	32.47	52.421	
6,800.00	6,645.99	6,762.13	6,645.99	24.73	19.91	74.44	523.03	596.60	1,702.30	1,669.46	32.84	51.834	
6,900.00	6,745.99	6,862.13	6,745.99	24.86	20.07	74.44	523.03	596.60	1,702.30	1,669.09	33.21	51.256	
7,000.00	6,845.99	6,962.13	6,845.99	24.98	20.23	74.44	523.03	596.60	1,702.30	1,668.71	33.58	50.688	
7,100.00	6,945.99	7,062.13	6,945.99	25.11	20.39	74.44	523.03	596.60	1,702.30	1,668.34	33.96	50.130	
7,200.00	7,045.99	7,162.13	7,045.99	25.24	20.56	74.44	523.03	596.60	1,702.30	1,667.96	34.33	49.582	
7,300.00	7,145.99	7,262.13	7,145.99	25.37	20.72	74.44	523.03	596.60	1,702.30	1,667.59	34.71	49.043	
7,400.00	7,245.99	7,362.13	7,245.99	25.51	20.89	74.44	523.03	596.60	1,702.30	1,667.21	35.09	48.513	
7,500.00	7,345.99	7,462.13	7,345.99	25.64	21.05	74.44	523.03	596.60	1,702.30	1,666.83	35.47	47.992	
7,600.00	7,445.99	7,562.13	7,445.99	25.78	21.22	74.44	523.03	596.60	1,702.30	1,666.45	35.85	47.481	
7,700.00	7,545.99	7,662.13	7,545.99	25.91	21.39	74.44	523.03	596.60	1,702.30	1,666.06	36.24	46.978	
7,800.00	7,645.99	7,762.13	7,645.99	26.05	21.56	74.44	523.03	596.60	1,702.30	1,665.68	36.62	46.484	
7,900.00	7,745.99	7,862.13	7,745.99	26.19	21.73	74.44	523.03	596.60	1,702.30	1,665.29	37.01	45.998	
8,000.00	7,845.99	7,962.13	7,845.99	26.33	21.90	74.44	523.03	596.60	1,702.30	1,664.90	37.40	45.520	
8,100.00	7,945.99	8,062.13	7,945.99	26.47	22.07	74.44	523.03	596.60	1,702.30	1,664.51	37.79	45.051	
8,200.00	8,045.99	8,162.13	8,045.99	26.61	22.24	74.44	523.03	596.60	1,702.30	1,664.12	38.18	44.590	
8,300.00	8,145.99	8,262.13	8,145.99	26.76	22.42	74.44	523.03	596.60	1,702.30	1,663.73	38.57	44.137	
8,400.00	8,245.99	8,362.13	8,245.99	26.90	22.59	74.44	523.03	596.60	1,702.30	1,663.34	38.96	43.691	
8,500.00	8,345.99	8,462.13	8,345.99	27.05	22.77	74.44	523.03	596.60	1,702.30	1,662.94	39.36	43.253	
8,505.50	8,351.50	8,467.64	8,351.50	27.05	22.78	74.44	523.03	596.60	1,702.30	1,662.92	39.38	43.230	
8,566.01	8,412.00	8,486.14	8,370.00	27.14	22.81	74.44	523.03	596.60	1,702.82	1,663.28	39.53	43.075	

Anadarko Petroleum Corporation

Weatherford International Ltd.

Anticollision Report

Weatherford

Company:	ANADARKO PETROLEUM CORP.	**Local Co-ordinate Reference:**	Well BONANZA 1023-5J3AS
Project:	UINTAH COUNTY, UTAH (nad 27)	**TVD Reference:**	WELL @ 5311.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-5I	**MD Reference:**	WELL @ 5311.00ft (Original Well Elev)
Site Error:	0.00ft	**North Reference:**	True
Reference Well:	BONANZA 1023-5J3AS	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00ft	**Output errors are at**	2.00 sigma
Reference Wellbore	BONANZA 1023-5J3AS	**Database:**	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 4-28-10 RHS	**Offset TVD Reference:**	Offset Datum

Offset Design Bonanza 1023-5I - BONANZA 1023-5I4BS - BONANZA 1023-5I4BS - PLAN #1 4-28-10 RHS

Offset Site Error: 0.00 ft

Survey Program: 0-MWD

Offset Well Error: 0.00 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	60.95	19.30	34.75	39.75				
100.00	100.00	100.00	100.00	0.10	0.10	60.95	19.30	34.75	39.75	39.55	0.20	199.832	
200.00	200.00	200.00	200.00	0.33	0.32	60.95	19.30	34.75	39.75	39.10	0.65	61.300	
300.00	300.00	300.00	300.00	0.55	0.55	60.95	19.30	34.75	39.75	38.65	1.10	36.203	CC, ES
400.00	399.98	397.91	397.87	0.77	0.76	149.72	19.61	37.24	43.64	42.10	1.53	28.449	
450.00	449.93	446.51	446.37	0.88	0.87	152.17	19.99	40.32	48.58	46.82	1.76	27.584	SF
500.00	499.86	494.76	494.42	0.98	0.99	154.73	20.52	44.59	55.21	53.22	1.98	27.821	
600.00	599.73	590.06	588.95	1.21	1.24	158.88	22.01	56.57	72.36	69.92	2.44	29.646	
700.00	699.59	683.45	680.88	1.45	1.56	161.81	24.02	72.82	94.55	91.65	2.90	32.566	
800.00	799.45	774.54	769.67	1.68	1.93	163.83	26.52	92.95	121.56	118.19	3.37	36.086	
900.00	899.31	866.09	857.96	1.92	2.37	165.25	29.50	116.97	152.74	148.90	3.84	39.731	
1,000.00	999.18	960.81	949.13	2.16	2.87	166.23	32.66	142.48	184.68	180.39	4.30	42.975	
1,100.00	1,099.04	1,055.53	1,040.29	2.41	3.38	166.93	35.82	167.98	216.66	211.90	4.76	45.556	
1,200.00	1,198.90	1,150.25	1,131.46	2.65	3.90	167.45	38.98	193.49	248.66	243.44	5.22	47.629	
1,300.00	1,298.77	1,244.97	1,222.63	2.89	4.43	167.85	42.15	218.99	280.67	274.98	5.69	49.316	
1,400.00	1,398.63	1,339.69	1,313.80	3.14	4.95	168.17	45.31	244.50	312.69	306.53	6.17	50.720	
1,500.00	1,498.49	1,434.42	1,404.97	3.38	5.49	168.43	48.47	270.00	344.72	338.08	6.64	51.903	
1,600.00	1,598.36	1,529.14	1,496.14	3.62	6.02	168.64	51.63	295.50	376.75	369.63	7.12	52.910	
1,700.00	1,698.22	1,623.86	1,587.31	3.87	6.56	168.82	54.80	321.01	408.79	401.19	7.60	53.777	
1,800.00	1,798.08	1,718.58	1,678.47	4.11	7.09	168.98	57.96	346.51	440.83	432.75	8.08	54.529	
1,900.00	1,897.94	1,813.30	1,769.64	4.36	7.63	169.11	61.12	372.02	472.87	464.31	8.57	55.188	
2,000.00	1,997.81	1,908.02	1,860.81	4.60	8.17	169.23	64.28	397.52	504.92	495.87	9.05	55.770	
2,102.33	2,100.00	2,004.96	1,954.11	4.85	8.72	169.33	67.52	423.62	537.71	528.16	9.55	56.299	
2,200.00	2,197.36	2,096.64	2,042.35	5.11	9.24	169.27	70.58	448.31	571.33	561.36	9.96	57.347	
2,300.00	2,296.51	2,200.33	2,142.31	5.41	9.78	169.29	73.97	475.65	609.98	599.62	10.37	58.838	
2,400.00	2,394.85	2,313.47	2,252.25	5.75	10.24	169.40	77.26	502.16	650.52	639.80	10.72	60.655	
2,500.00	2,492.10	2,427.49	2,363.91	6.15	10.65	169.58	80.09	525.03	692.61	681.56	11.05	62.694	
2,600.00	2,588.01	2,542.45	2,477.24	6.61	11.01	169.80	82.47	544.18	736.21	724.87	11.34	64.937	
2,668.98	2,653.24	2,622.35	2,556.36	6.98	11.24	169.99	83.83	555.16	767.16	755.64	11.52	66.598	
2,700.00	2,682.39	2,658.59	2,592.33	7.15	11.33	170.15	84.37	559.50	781.09	769.42	11.67	66.958	
2,800.00	2,776.36	2,778.13	2,711.31	7.73	11.60	170.66	85.80	571.04	823.87	811.73	12.14	67.854	
2,900.00	2,870.33	2,901.74	2,834.68	8.33	11.82	171.14	86.71	578.42	863.30	850.68	12.62	68.388	
3,000.00	2,964.30	3,029.24	2,962.14	8.96	11.98	171.58	87.05	581.18	899.22	886.11	13.11	68.612	
3,100.00	3,058.27	3,125.36	3,058.27	9.59	12.09	171.90	87.05	581.19	933.11	919.56	13.56	68.836	
3,200.00	3,152.23	3,219.33	3,152.23	10.24	12.20	172.18	87.05	581.19	967.02	953.01	14.01	69.012	
3,300.00	3,246.20	3,313.30	3,246.20	10.90	12.31	172.45	87.05	581.19	1,000.95	986.48	14.47	69.153	
3,400.00	3,340.17	3,407.27	3,340.17	11.57	12.42	172.70	87.05	581.19	1,034.90	1,019.96	14.94	69.265	
3,500.00	3,434.14	3,501.24	3,434.14	12.24	12.54	172.93	87.05	581.19	1,068.86	1,053.45	15.41	69.353	
3,600.00	3,528.11	3,595.21	3,528.11	12.92	12.66	173.15	87.05	581.19	1,102.84	1,086.96	15.89	69.418	
3,700.00	3,622.08	3,689.18	3,622.08	13.61	12.78	173.35	87.05	581.19	1,136.83	1,120.47	16.37	69.467	
3,800.00	3,716.05	3,783.15	3,716.05	14.30	12.90	173.55	87.05	581.19	1,170.84	1,153.99	16.85	69.500	
3,900.00	3,810.02	3,877.12	3,810.02	14.99	13.03	173.73	87.05	581.19	1,204.85	1,187.52	17.33	69.521	
4,000.00	3,903.99	3,971.09	3,903.99	15.69	13.16	173.90	87.05	581.19	1,238.88	1,221.06	17.82	69.530	
4,100.00	3,997.96	4,065.06	3,997.96	16.39	13.29	174.07	87.05	581.19	1,272.91	1,254.61	18.31	69.531	
4,200.00	4,091.93	4,159.03	4,091.93	17.09	13.42	174.22	87.05	581.19	1,306.96	1,288.16	18.80	69.523	
4,300.00	4,185.90	4,253.00	4,185.90	17.80	13.56	174.37	87.05	581.19	1,341.01	1,321.72	19.29	69.509	
4,400.00	4,279.87	4,346.97	4,279.87	18.50	13.69	174.51	87.05	581.19	1,375.07	1,355.28	19.79	69.489	
4,500.00	4,373.84	4,440.94	4,373.84	19.21	13.83	174.64	87.05	581.19	1,409.13	1,388.85	20.29	69.465	
4,600.00	4,467.81	4,534.91	4,467.81	19.92	13.97	174.77	87.05	581.19	1,443.21	1,422.42	20.78	69.435	
4,627.03	4,493.21	4,560.30	4,493.21	20.11	14.01	174.80	87.05	581.19	1,452.42	1,431.50	20.92	69.427	
4,700.00	4,562.09	4,629.19	4,562.09	20.56	14.11	174.93	87.05	581.19	1,476.41	1,455.01	21.40	68.999	
4,800.00	4,657.43	4,724.53	4,657.43	21.06	14.26	175.09	87.05	581.19	1,506.44	1,484.43	22.01	68.446	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Weatherford International Ltd.

Anticollision Report

Company:	ANADARKO PETROLEUM CORP.	**Local Co-ordinate Reference:**	Well BONANZA 1023-5J3AS
Project:	UINTAH COUNTY, UTAH (nad 27)	**TVD Reference:**	WELL @ 5311.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-5I	**MD Reference:**	WELL @ 5311.00ft (Original Well Elev)
Site Error:	0.00ft	**North Reference:**	True
Reference Well:	BONANZA 1023-5J3AS	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00ft	**Output errors are at**	2.00 sigma
Reference Wellbore	BONANZA 1023-5J3AS	**Database:**	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 4-28-10 RHS	**Offset TVD Reference:**	Offset Datum

Offset Design Bonanza 1023-5I - BONANZA 1023-5I4BS - BONANZA 1023-5I4BS - PLAN #1 4-28-10 RHS

Offset Site Error: 0.00 ft

Survey Program: 0-MWD

Offset Well Error: 0.00 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
4,900.00	4,753.77	4,820.87	4,753.77	21.51	14.41	175.22	87.05	581.19	1,533.14	1,510.55	22.59	67.862	
5,000.00	4,850.99	4,918.09	4,850.99	21.91	14.56	175.33	87.05	581.19	1,556.48	1,533.34	23.14	67.250	
5,100.00	4,948.96	5,016.06	4,948.96	22.27	14.72	175.42	87.05	581.19	1,576.42	1,552.76	23.67	66.612	
5,200.00	5,047.57	5,114.67	5,047.57	22.57	14.87	175.50	87.05	581.19	1,592.95	1,568.79	24.15	65.952	
5,300.00	5,146.70	5,213.80	5,146.70	22.83	15.03	175.55	87.05	581.19	1,606.03	1,581.42	24.61	65.270	
5,400.00	5,246.23	5,313.33	5,246.23	23.05	15.20	175.59	87.05	581.19	1,615.65	1,590.63	25.02	64.567	
5,500.00	5,346.04	5,413.13	5,346.04	23.22	15.36	175.62	87.05	581.19	1,621.81	1,596.41	25.40	63.842	
5,600.00	5,446.00	5,513.09	5,446.00	23.34	15.53	175.63	87.05	581.19	1,624.49	1,598.74	25.75	63.095	
5,627.01	5,473.00	5,540.10	5,473.00	23.37	15.57	89.27	87.05	581.19	1,624.62	1,598.78	25.83	62.885	
5,700.00	5,545.99	5,613.09	5,545.99	23.44	15.69	89.27	87.05	581.19	1,624.62	1,598.51	26.11	62.221	
5,800.00	5,645.99	5,713.09	5,645.99	23.55	15.86	89.27	87.05	581.19	1,624.62	1,598.12	26.49	61.323	
5,900.00	5,745.99	5,813.09	5,745.99	23.66	16.03	89.27	87.05	581.19	1,624.62	1,597.74	26.88	60.447	
6,000.00	5,845.99	5,913.09	5,845.99	23.77	16.21	89.27	87.05	581.19	1,624.62	1,597.35	27.26	59.591	
6,100.00	5,945.99	6,013.09	5,945.99	23.89	16.38	89.27	87.05	581.19	1,624.62	1,596.96	27.65	58.755	
6,200.00	6,045.99	6,113.09	6,045.99	24.00	16.55	89.27	87.05	581.19	1,624.62	1,596.58	28.04	57.939	
6,300.00	6,145.99	6,213.09	6,145.99	24.12	16.73	89.27	87.05	581.19	1,624.62	1,596.18	28.43	57.141	
6,400.00	6,245.99	6,313.09	6,245.99	24.24	16.90	89.27	87.05	581.19	1,624.62	1,595.79	28.82	56.362	
6,500.00	6,345.99	6,413.09	6,345.99	24.36	17.08	89.27	87.05	581.19	1,624.62	1,595.40	29.22	55.601	
6,600.00	6,445.99	6,513.09	6,445.99	24.48	17.26	89.27	87.05	581.19	1,624.62	1,595.00	29.62	54.857	
6,700.00	6,545.99	6,613.09	6,545.99	24.61	17.44	89.27	87.05	581.19	1,624.62	1,594.60	30.01	54.131	
6,800.00	6,645.99	6,713.09	6,645.99	24.73	17.62	89.27	87.05	581.19	1,624.62	1,594.20	30.41	53.421	
6,900.00	6,745.99	6,813.09	6,745.99	24.86	17.80	89.27	87.05	581.19	1,624.62	1,593.80	30.81	52.727	
7,000.00	6,845.99	6,913.09	6,845.99	24.98	17.99	89.27	87.05	581.19	1,624.62	1,593.40	31.21	52.049	
7,100.00	6,945.99	7,013.09	6,945.99	25.11	18.17	89.27	87.05	581.19	1,624.62	1,593.00	31.62	51.386	
7,200.00	7,045.99	7,113.09	7,045.99	25.24	18.36	89.27	87.05	581.19	1,624.62	1,592.60	32.02	50.737	
7,300.00	7,145.99	7,213.09	7,145.99	25.37	18.54	89.27	87.05	581.19	1,624.62	1,592.19	32.43	50.103	
7,400.00	7,245.99	7,313.09	7,245.99	25.51	18.73	89.27	87.05	581.19	1,624.62	1,591.78	32.83	49.483	
7,500.00	7,345.99	7,413.09	7,345.99	25.64	18.92	89.27	87.05	581.19	1,624.62	1,591.38	33.24	48.877	
7,600.00	7,445.99	7,513.09	7,445.99	25.78	19.10	89.27	87.05	581.19	1,624.62	1,590.97	33.65	48.283	
7,700.00	7,545.99	7,613.09	7,545.99	25.91	19.29	89.27	87.05	581.19	1,624.62	1,590.56	34.06	47.703	
7,800.00	7,645.99	7,713.09	7,645.99	26.05	19.48	89.27	87.05	581.19	1,624.62	1,590.15	34.47	47.135	
7,900.00	7,745.99	7,813.09	7,745.99	26.19	19.67	89.27	87.05	581.19	1,624.62	1,589.74	34.88	46.579	
8,000.00	7,845.99	7,913.09	7,845.99	26.33	19.86	89.27	87.05	581.19	1,624.62	1,589.32	35.29	46.035	
8,100.00	7,945.99	8,013.09	7,945.99	26.47	20.06	89.27	87.05	581.19	1,624.62	1,588.91	35.70	45.502	
8,200.00	8,045.99	8,113.09	8,045.99	26.61	20.25	89.27	87.05	581.19	1,624.62	1,588.50	36.12	44.981	
8,300.00	8,145.99	8,213.09	8,145.99	26.76	20.44	89.27	87.05	581.19	1,624.62	1,588.08	36.53	44.470	
8,400.00	8,245.99	8,313.09	8,245.99	26.90	20.64	89.27	87.05	581.19	1,624.62	1,587.67	36.95	43.970	
8,500.00	8,345.99	8,413.09	8,345.99	27.05	20.83	89.27	87.05	581.19	1,624.62	1,587.25	37.36	43.480	
8,566.01	8,412.00	8,424.10	8,357.00	27.14	20.85	89.27	87.05	581.19	1,625.55	1,588.03	37.52	43.325	

Weatherford International Ltd.

Anticollision Report

Company:	ANADARKO PETROLEUM CORP.	**Local Co-ordinate Reference:**	Well BONANZA 1023-5J3AS
Project:	UINTAH COUNTY, UTAH (nad 27)	**TVD Reference:**	WELL @ 5311.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-5I	**MD Reference:**	WELL @ 5311.00ft (Original Well Elev)
Site Error:	0.00ft	**North Reference:**	True
Reference Well:	BONANZA 1023-5J3AS	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00ft	**Output errors are at**	2.00 sigma
Reference Wellbore	BONANZA 1023-5J3AS	**Database:**	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 4-28-10 RHS	**Offset TVD Reference:**	Offset Datum

Offset Design Bonanza 1023-5I - Bonanza 1023-5PS EXISTING - Bonanza 1023-5PS EXISTING - Bonanza 1023-5PS

Offset Site Error: 0.00 ft

Survey Program: 514-MWD

Offset Well Error: 0.00 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.00	0.00	9.00	9.00	0.00	0.01	72.10	15.66	48.48	50.95				
100.00	100.00	108.99	108.99	0.10	0.12	72.08	15.68	48.48	50.96	50.74	0.22	231.142	
200.00	200.00	208.98	208.98	0.33	0.23	72.02	15.73	48.49	50.98	50.43	0.55	92.085	
300.00	300.00	308.97	308.97	0.55	0.34	71.94	15.82	48.51	51.03	50.14	0.89	57.537 ES	
400.00	399.98	408.94	408.94	0.77	0.44	158.87	15.94	48.54	52.71	51.50	1.21	43.430	
450.00	449.93	458.89	458.89	0.88	0.50	159.61	16.01	48.55	54.78	53.41	1.38	39.751	
500.00	499.86	508.82	508.82	0.98	0.55	160.45	16.09	48.57	57.28	55.74	1.54	37.210	
600.00	599.73	608.65	608.65	1.21	0.76	161.93	16.25	48.63	62.34	60.38	1.96	31.800	
700.00	699.59	708.47	708.47	1.45	0.97	163.22	16.39	48.75	67.48	65.09	2.39	28.221	
800.00	799.45	808.29	808.29	1.68	1.19	164.35	16.51	48.93	72.71	69.89	2.82	25.740	
900.00	899.31	908.10	908.10	1.92	1.40	165.35	16.61	49.16	78.02	74.76	3.26	23.931	
1,000.00	999.18	1,007.90	1,007.90	2.16	1.61	166.25	16.69	49.46	83.40	79.70	3.70	22.562	
1,100.00	1,099.04	1,107.69	1,107.69	2.41	1.82	167.07	16.72	49.83	88.85	84.72	4.13	21.513	
1,200.00	1,198.90	1,207.47	1,207.47	2.65	2.03	167.88	16.64	50.27	94.39	89.83	4.56	20.683	
1,300.00	1,298.77	1,307.25	1,307.24	2.89	2.24	168.67	16.43	50.79	100.00	95.01	5.00	20.012	
1,400.00	1,398.63	1,407.19	1,407.18	3.14	2.45	169.44	16.11	51.36	105.67	100.24	5.43	19.467	
1,500.00	1,498.49	1,507.39	1,507.38	3.38	2.65	170.15	15.72	51.67	111.08	105.23	5.86	18.972	
1,600.00	1,598.36	1,607.62	1,607.61	3.62	2.85	170.82	15.27	51.66	116.18	109.90	6.28	18.493	
1,700.00	1,698.22	1,707.80	1,707.79	3.87	3.05	171.44	14.76	51.32	120.98	114.27	6.71	18.027	
1,800.00	1,798.08	1,807.40	1,807.39	4.11	3.26	172.07	14.12	51.02	125.80	118.66	7.14	17.613	
1,900.00	1,897.94	1,907.22	1,907.20	4.36	3.46	172.77	13.24	50.92	130.83	123.26	7.58	17.268	
2,000.00	1,997.81	2,006.65	2,006.62	4.60	3.67	173.59	11.95	50.88	135.91	127.90	8.01	16.961	
2,102.33	2,100.00	2,108.63	2,108.60	4.85	3.89	174.39	10.59	51.27	141.57	133.11	8.46	16.730 SF	
2,200.00	2,197.36	2,207.91	2,207.81	5.11	4.10	175.88	7.44	51.23	149.05	140.17	8.88	16.786	
2,300.00	2,296.51	2,308.14	2,307.74	5.41	4.32	178.93	-0.16	49.52	160.41	151.12	9.29	17.260	
2,400.00	2,394.85	2,405.19	2,404.32	5.75	4.54	-177.86	-9.54	48.00	177.67	167.97	9.70	18.318	
2,500.00	2,492.10	2,498.99	2,497.31	6.15	4.77	-174.44	-21.78	47.00	201.46	191.35	10.10	19.938	
2,600.00	2,588.01	2,590.03	2,587.07	6.61	5.02	-171.07	-36.93	47.08	232.57	222.05	10.51	22.118	
2,668.98	2,653.24	2,652.73	2,648.80	6.98	5.19	-169.14	-47.94	47.65	257.84	247.04	10.80	23.877	
2,700.00	2,682.39	2,681.57	2,677.18	7.15	5.27	-168.44	-53.04	47.92	269.79	258.82	10.97	24.599	
2,800.00	2,776.36	2,774.26	2,768.33	7.73	5.53	-166.45	-69.86	48.42	308.30	296.77	11.52	26.755	
2,900.00	2,870.33	2,865.42	2,857.86	8.33	5.79	-164.80	-87.04	48.66	347.00	334.90	12.10	28.674	
3,000.00	2,964.30	2,960.59	2,951.40	8.96	6.07	-163.50	-104.53	48.87	385.74	373.04	12.70	30.380	
3,100.00	3,058.27	3,053.65	3,042.99	9.59	6.34	-162.52	-121.01	48.54	423.88	410.58	13.30	31.879	
3,200.00	3,152.23	3,147.24	3,135.19	10.24	6.62	-161.76	-137.11	48.28	462.01	448.09	13.92	33.202	
3,300.00	3,246.20	3,247.53	3,233.81	10.90	6.94	-160.91	-155.20	46.48	499.18	484.59	14.58	34.227	
3,400.00	3,340.17	3,339.51	3,324.14	11.57	7.25	-160.14	-172.35	43.98	535.83	520.58	15.25	35.126	
3,500.00	3,434.14	3,428.71	3,411.91	12.24	7.55	-159.61	-188.21	42.33	573.00	557.09	15.91	36.011	
3,600.00	3,528.11	3,531.69	3,513.29	12.92	7.88	-159.08	-206.07	39.91	609.61	593.00	16.61	36.700	
3,700.00	3,622.08	3,628.90	3,609.10	13.61	8.19	-158.68	-222.20	36.70	645.16	627.87	17.29	37.305	
3,800.00	3,716.05	3,719.48	3,698.46	14.30	8.48	-158.39	-236.74	33.88	680.69	662.73	17.96	37.901	
3,900.00	3,810.02	3,805.00	3,782.78	14.99	8.76	-158.13	-250.83	31.66	716.85	698.22	18.63	38.485	
4,000.00	3,903.99	3,882.93	3,859.46	15.69	9.04	-157.86	-264.69	30.49	754.47	735.18	19.29	39.116	
4,100.00	3,997.96	3,973.52	3,948.43	16.39	9.36	-157.55	-281.72	30.15	793.42	773.43	19.99	39.687	
4,200.00	4,091.93	4,063.90	4,037.37	17.09	9.66	-157.33	-297.80	30.15	832.31	811.63	20.68	40.252	
4,300.00	4,185.90	4,145.34	4,117.49	17.80	9.95	-157.17	-312.39	30.67	871.80	850.46	21.34	40.843	
4,400.00	4,279.87	4,238.52	4,208.66	18.50	10.30	-156.83	-331.61	31.18	912.30	890.22	22.08	41.310	
4,500.00	4,373.84	4,350.44	4,318.17	19.21	10.72	-156.41	-354.69	29.83	951.37	928.47	22.90	41.545	
4,600.00	4,467.81	4,447.28	4,413.12	19.92	11.07	-156.11	-373.58	27.58	989.08	965.42	23.65	41.814	
4,627.03	4,493.21	4,472.91	4,438.29	20.11	11.16	-156.04	-378.39	27.07	999.26	975.41	23.85	41.890	
4,700.00	4,562.09	4,554.67	4,518.82	20.56	11.44	-156.13	-392.36	25.44	1,025.47	1,001.01	24.46	41.929	
4,800.00	4,657.43	4,660.37	4,623.40	21.06	11.77	-156.30	-407.58	23.29	1,057.63	1,032.46	25.17	42.022	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corporation

Weatherford International Ltd.

Anticollision Report

Weatherford

Company:	ANADARKO PETROLEUM CORP.	**Local Co-ordinate Reference:**	Well BONANZA 1023-5J3AS
Project:	UINTAH COUNTY, UTAH (nad 27)	**TVD Reference:**	WELL @ 5311.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-5I	**MD Reference:**	WELL @ 5311.00ft (Original Well Elev)
Site Error:	0.00ft	**North Reference:**	True
Reference Well:	BONANZA 1023-5J3AS	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00ft	**Output errors are at**	2.00 sigma
Reference Wellbore	BONANZA 1023-5J3AS	**Database:**	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 4-28-10 RHS	**Offset TVD Reference:**	Offset Datum

Offset Design Bonanza 1023-5I - Bonanza 1023-5PS EXISTING - Bonanza 1023-5PS EXISTING - Bonanza 1023-5PS

Offset Site Error: 0.00 ft

Survey Program: 514-MWD

Offset Well Error: 0.00 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
4,900.00	4,753.77	4,766.63	4,728.86	21.51	12.08	-156.48	-420.39	21.21	1,085.81	1,059.99	25.83	42.044	
5,000.00	4,850.99	4,871.14	4,833.04	21.91	12.34	-156.79	-428.46	20.30	1,109.98	1,083.59	26.39	42.062	
5,100.00	4,948.96	4,975.87	4,937.61	22.27	12.57	-157.11	-434.31	20.33	1,130.91	1,104.03	26.89	42.061	
5,200.00	5,047.57	5,089.53	5,051.20	22.57	12.80	-157.41	-438.12	19.23	1,146.75	1,119.40	27.35	41.925	
5,300.00	5,146.70	5,190.84	5,152.46	22.83	13.00	-157.62	-440.94	18.54	1,159.50	1,131.74	27.75	41.780	
5,400.00	5,246.23	5,294.00	5,255.62	23.05	13.18	-157.83	-441.84	18.10	1,168.43	1,140.32	28.10	41.578	
5,500.00	5,346.04	5,392.41	5,354.02	23.22	13.35	-157.94	-442.67	17.72	1,174.17	1,145.76	28.41	41.327	
5,600.00	5,446.00	5,497.47	5,459.08	23.34	13.54	-157.97	-443.27	17.37	1,176.60	1,147.91	28.70	40.998	
5,627.01	5,473.00	5,524.30	5,485.91	23.37	13.58	115.66	-443.26	17.25	1,176.62	1,147.85	28.77	40.899	
5,666.35	5,512.34	5,559.73	5,521.34	23.41	13.65	115.66	-443.26	17.19	1,176.55	1,147.66	28.89	40.725	
5,700.00	5,545.99	5,590.03	5,551.65	23.44	13.70	115.67	-443.29	17.22	1,176.60	1,147.61	28.99	40.581	
5,800.00	5,645.99	5,686.77	5,648.39	23.55	13.87	115.68	-443.72	17.53	1,177.08	1,147.76	29.32	40.143	
5,900.00	5,745.99	5,809.21	5,770.82	23.66	14.08	115.70	-443.86	16.89	1,176.65	1,146.95	29.69	39.625	
5,997.61	5,843.60	5,892.00	5,853.60	23.77	14.21	115.67	-443.09	16.66	1,176.01	1,146.02	29.99	39.219	
6,000.00	5,845.99	5,892.00	5,853.60	23.77	14.21	115.67	-443.09	16.66	1,176.01	1,146.02	29.99	39.214	
6,100.00	5,945.99	5,975.96	5,937.56	23.89	14.36	115.66	-443.13	17.37	1,176.78	1,146.49	30.30	38.843	
6,200.00	6,045.99	6,080.76	6,042.34	24.00	14.55	115.67	-444.09	18.52	1,178.18	1,147.53	30.65	38.442	
6,300.00	6,145.99	6,198.56	6,160.15	24.12	14.75	115.67	-444.20	18.81	1,178.43	1,147.41	31.02	37.993	
6,400.00	6,245.99	6,303.57	6,265.15	24.24	14.93	115.65	-443.49	18.27	1,177.67	1,146.31	31.36	37.552	
6,500.00	6,345.99	6,398.41	6,359.99	24.36	15.09	115.62	-442.56	17.96	1,176.96	1,145.27	31.69	37.142	
6,549.49	6,395.49	6,442.92	6,404.49	24.42	15.17	115.60	-442.21	18.02	1,176.85	1,145.01	31.85	36.953	
6,600.00	6,445.99	6,492.55	6,454.12	24.48	15.26	115.58	-441.94	18.22	1,176.91	1,144.89	32.02	36.758	
6,691.79	6,537.79	6,585.22	6,546.79	24.59	15.42	115.58	-441.82	18.22	1,176.86	1,144.53	32.34	36.392	
6,700.00	6,545.99	6,592.96	6,554.53	24.61	15.43	115.58	-441.84	18.22	1,176.87	1,144.50	32.37	36.361	
6,800.00	6,645.99	6,686.26	6,647.83	24.73	15.60	115.60	-442.32	18.29	1,177.16	1,144.45	32.71	35.987	
6,900.00	6,745.99	6,803.62	6,765.18	24.86	15.82	115.63	-443.13	18.53	1,177.75	1,144.64	33.11	35.575	
7,000.00	6,845.99	6,909.01	6,870.56	24.98	16.01	115.65	-442.72	16.80	1,176.08	1,142.60	33.48	35.133	
7,100.00	6,945.99	7,004.01	6,965.56	25.11	16.19	115.67	-442.63	15.78	1,175.06	1,141.23	33.83	34.734	
7,200.00	7,045.99	7,108.32	7,069.86	25.24	16.38	115.70	-442.69	14.57	1,174.04	1,139.84	34.20	34.324	
7,300.00	7,145.99	7,201.12	7,162.65	25.37	16.55	115.72	-442.66	13.50	1,172.99	1,138.44	34.56	33.945	
7,400.00	7,245.99	7,299.16	7,260.68	25.51	16.72	115.68	-441.70	13.42	1,172.49	1,137.59	34.90	33.591	
7,467.12	7,313.12	7,360.60	7,322.12	25.60	16.83	115.64	-440.89	13.60	1,172.29	1,137.16	35.13	33.370	
7,500.00	7,345.99	7,389.83	7,351.34	25.64	16.88	115.62	-440.64	13.77	1,172.34	1,137.11	35.24	33.268	
7,600.00	7,445.99	7,485.52	7,447.03	25.78	17.06	115.59	-440.25	14.56	1,172.91	1,137.32	35.59	32.957	
7,700.00	7,545.99	7,579.48	7,540.99	25.91	17.23	115.55	-439.99	15.62	1,173.81	1,137.87	35.94	32.661	
7,800.00	7,645.99	7,676.46	7,637.95	26.05	17.41	115.50	-439.63	17.25	1,175.17	1,138.87	36.29	32.379	
7,900.00	7,745.99	7,785.71	7,747.19	26.19	17.61	115.46	-439.33	18.77	1,176.32	1,139.64	36.67	32.077	
8,000.00	7,845.99	7,879.55	7,841.02	26.33	17.79	115.45	-439.47	19.64	1,177.21	1,140.18	37.03	31.793	
8,100.00	7,945.99	7,974.78	7,936.25	26.47	17.97	115.46	-440.36	20.68	1,178.60	1,141.21	37.40	31.515	
8,200.00	8,045.99	8,067.86	8,029.31	26.61	18.16	115.50	-441.76	21.95	1,180.48	1,142.71	37.77	31.254	
8,300.00	8,145.99	8,178.91	8,140.33	26.76	18.38	115.52	-443.03	23.43	1,182.17	1,144.00	38.17	30.968	
8,400.00	8,245.99	8,272.23	8,233.65	26.90	18.56	115.53	-443.69	24.73	1,183.73	1,145.20	38.54	30.716	
8,500.00	8,345.99	8,359.00	8,320.41	27.05	18.72	115.51	-443.96	26.14	1,185.44	1,146.55	38.89	30.484	
8,566.01	8,412.00	8,359.00	8,320.41	27.14	18.72	115.51	-443.96	26.14	1,189.19	1,150.18	39.01	30.484	

Anadarko Petroleum Corporation

Weatherford International Ltd.

Anticollision Report

Weatherford

Company:	ANADARKO PETROLEUM CORP.	**Local Co-ordinate Reference:**	Well BONANZA 1023-5J3AS
Project:	UINTAH COUNTY, UTAH (nad 27)	**TVD Reference:**	WELL @ 5311.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-5I	**MD Reference:**	WELL @ 5311.00ft (Original Well Elev)
Site Error:	0.00ft	**North Reference:**	True
Reference Well:	BONANZA 1023-5J3AS	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00ft	**Output errors are at**	2.00 sigma
Reference Wellbore	BONANZA 1023-5J3AS	**Database:**	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 4-28-10 RHS	**Offset TVD Reference:**	Offset Datum

Offset Design Bonanza 1023-5I - Southman Canyon 4-5 EXISTING - Southman Canyon 4-5 EXISTING - Southman Ca

Offset Site Error: 0.00 ft

Survey Program: 100-NS-GYRO-MS

Offset Well Error: 0.00 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	88.82	0.73	35.31	37.99				
100.00	100.00	86.09	86.09	0.10	0.11	88.62	0.85	35.20	35.21	34.99	0.22	162.570	
200.00	200.00	186.04	186.04	0.33	0.36	88.03	1.20	34.98	35.00	34.32	0.68	51.293	
230.35	230.35	216.35	216.35	0.40	0.42	87.83	1.33	34.95	34.98	34.16	0.82	42.781	CC
300.00	300.00	285.88	285.88	0.55	0.55	87.52	1.52	35.07	35.10	33.99	1.11	31.739	ES
400.00	399.98	385.99	385.98	0.77	0.76	173.79	1.77	35.29	37.07	35.54	1.53	24.233	
450.00	449.93	435.96	435.96	0.88	0.89	173.82	1.98	35.24	39.20	37.44	1.76	22.302	
500.00	499.86	485.90	485.90	0.98	1.02	173.91	2.19	35.20	41.76	39.77	1.99	20.955	
600.00	599.73	585.74	585.73	1.21	1.28	174.26	2.46	35.13	46.92	44.45	2.47	18.995	
700.00	699.59	685.41	685.41	1.45	1.51	174.76	2.53	35.28	52.27	49.36	2.92	17.924	
800.00	799.45	785.24	785.23	1.68	1.71	175.04	2.73	35.66	57.87	54.53	3.34	17.303	
900.00	899.31	885.29	885.28	1.92	1.95	175.32	2.88	35.89	63.32	59.52	3.80	16.650	
1,000.00	999.18	985.03	985.02	2.16	2.20	175.57	3.01	35.99	68.64	64.36	4.28	16.037	
1,100.00	1,099.04	1,084.47	1,084.46	2.41	2.42	175.70	3.25	36.46	74.34	69.61	4.72	15.738	
1,200.00	1,198.90	1,184.21	1,184.20	2.65	2.61	175.96	3.30	37.32	80.42	75.28	5.14	15.660	
1,300.00	1,298.77	1,284.03	1,284.01	2.89	2.80	176.19	3.32	38.19	86.51	80.96	5.55	15.581	
1,400.00	1,398.63	1,384.18	1,384.16	3.14	3.03	176.23	3.61	38.91	92.45	86.44	6.01	15.395	
1,500.00	1,498.49	1,484.33	1,484.31	3.38	3.28	176.06	4.24	39.24	98.01	91.52	6.49	15.107	
1,600.00	1,598.36	1,584.18	1,584.15	3.62	3.54	176.04	4.64	39.41	103.39	96.42	6.97	14.825	
1,700.00	1,698.22	1,683.55	1,683.52	3.87	3.80	175.89	5.28	39.79	109.00	101.54	7.46	14.609	
1,800.00	1,798.08	1,783.58	1,783.55	4.11	4.06	175.70	6.04	40.38	114.82	106.88	7.94	14.462	
1,900.00	1,897.94	1,883.54	1,883.51	4.36	4.30	175.79	6.25	40.77	120.43	112.02	8.41	14.313	
2,000.00	1,997.81	1,983.51	1,983.48	4.60	4.56	175.83	6.55	41.08	125.96	117.06	8.90	14.156	
2,102.33	2,100.00	2,085.65	2,085.62	4.85	4.83	175.85	6.91	41.35	131.57	122.17	9.40	13.999	SF
2,200.00	2,197.36	2,183.32	2,183.29	5.11	5.08	175.98	7.11	41.53	139.34	129.50	9.84	14.155	
2,300.00	2,296.51	2,282.31	2,282.27	5.41	5.24	176.34	6.98	41.60	152.31	142.12	10.19	14.945	
2,400.00	2,394.85	2,380.54	2,380.51	5.75	5.33	176.83	6.60	41.78	170.57	160.13	10.44	16.345	
2,500.00	2,492.10	2,477.84	2,477.80	6.15	5.40	177.29	6.21	41.95	193.94	183.29	10.65	18.215	
2,600.00	2,588.01	2,572.97	2,572.93	6.61	5.49	177.72	5.76	42.20	222.45	211.60	10.86	20.488	
2,668.98	2,653.24	2,637.80	2,637.76	6.98	5.57	178.00	5.35	42.57	245.24	234.23	11.01	22.283	
2,700.00	2,682.39	2,666.90	2,666.86	7.15	5.61	178.13	5.16	42.74	256.01	244.89	11.13	23.010	
2,800.00	2,776.36	2,761.88	2,761.83	7.73	5.72	178.50	4.41	43.14	290.63	279.13	11.50	25.272	
2,900.00	2,870.33	2,854.87	2,854.82	8.33	5.81	178.88	3.21	43.22	324.96	313.09	11.87	27.384	
3,000.00	2,964.30	2,947.54	2,947.47	8.96	5.91	179.23	1.74	43.86	359.87	347.62	12.25	29.381	
3,100.00	3,058.27	3,042.03	3,041.94	9.59	6.03	179.59	-0.14	44.40	394.71	382.06	12.65	31.210	
3,200.00	3,152.23	3,136.45	3,136.35	10.24	6.15	179.85	-1.78	44.79	429.39	416.34	13.05	32.908	
3,300.00	3,246.20	3,230.48	3,230.37	10.90	6.27	-179.97	-3.08	45.06	463.95	450.49	13.46	34.471	
3,400.00	3,340.17	3,323.39	3,323.27	11.57	6.41	-179.81	-4.40	45.43	498.61	484.72	13.88	35.911	
3,500.00	3,434.14	3,416.25	3,416.12	12.24	6.55	-179.66	-5.86	45.96	533.44	519.12	14.32	37.260	
3,600.00	3,528.11	3,509.39	3,509.25	12.92	6.71	-179.53	-7.35	46.61	568.40	553.63	14.77	38.479	
3,700.00	3,622.08	3,602.51	3,602.35	13.61	6.87	-179.41	-8.79	47.35	603.45	588.22	15.23	39.626	
3,800.00	3,716.05	3,697.25	3,697.08	14.30	7.05	-179.32	-10.16	48.07	638.46	622.76	15.70	40.664	
3,900.00	3,810.02	3,792.12	3,791.93	14.99	7.22	-179.25	-11.39	48.64	673.31	657.13	16.17	41.627	
4,000.00	3,903.99	3,887.27	3,887.07	15.69	7.39	-179.19	-12.56	49.03	707.98	691.34	16.64	42.536	
4,100.00	3,997.96	3,982.57	3,982.37	16.39	7.56	-179.13	-13.78	49.24	742.48	725.36	17.12	43.381	
4,200.00	4,091.93	4,077.83	4,077.62	17.09	7.71	-179.08	-14.88	49.27	776.79	759.22	17.57	44.214	
4,300.00	4,185.90	4,173.17	4,172.96	17.80	7.86	-179.07	-15.57	49.18	810.95	792.93	18.02	45.004	
4,400.00	4,279.87	4,267.08	4,266.87	18.50	8.00	-179.08	-15.95	49.00	845.00	826.53	18.47	45.742	
4,500.00	4,373.84	4,360.34	4,360.12	19.21	8.15	-179.08	-16.34	48.90	879.13	860.20	18.93	46.446	
4,600.00	4,467.81	4,454.73	4,454.52	19.92	8.30	-179.09	-16.74	48.84	913.30	893.92	19.39	47.113	
4,627.03	4,493.21	4,480.50	4,480.28	20.11	8.34	-179.09	-16.84	48.81	922.52	903.01	19.51	47.286	
4,700.00	4,562.09	4,550.40	4,550.19	20.56	8.45	-179.11	-17.09	48.67	946.48	926.56	19.92	47.507	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corporation

Weatherford International Ltd.

Anticollision Report

Weatherford

Company:	ANADARKO PETROLEUM CORP.	**Local Co-ordinate Reference:**	Well BONANZA 1023-5J3AS
Project:	UINTAH COUNTY, UTAH (nad 27)	**TVD Reference:**	WELL @ 5311.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-5I	**MD Reference:**	WELL @ 5311.00ft (Original Well Elev)
Site Error:	0.00ft	**North Reference:**	True
Reference Well:	BONANZA 1023-5J3AS	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00ft	**Output errors are at**	2.00 sigma
Reference Wellbore	BONANZA 1023-5J3AS	**Database:**	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 4-28-10 RHS	**Offset TVD Reference:**	Offset Datum

Offset Design Bonanza 1023-5I - Southman Canyon 4-5 EXISTING - Southman Canyon 4-5 EXISTING - Southman Ca

Offset Site Error: 0.00 ft

Survey Program: 100-NS-GYRO-MS

Offset Well Error: 0.00 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
4,800.00	4,657.43	4,646.68	4,646.46	21.06	8.58	-179.13	-17.35	48.38	976.35	955.92	20.43	47.800	
4,900.00	4,753.77	4,743.40	4,743.19	21.51	8.69	-179.16	-17.37	48.06	1,002.82	981.94	20.88	48.029	
5,000.00	4,850.99	4,839.76	4,839.54	21.91	8.82	-179.19	-17.18	47.76	1,025.91	1,004.59	21.32	48.130	
5,100.00	4,948.96	4,935.05	4,934.83	22.27	8.98	-179.21	-17.20	47.65	1,045.79	1,024.06	21.74	48.108	
5,200.00	5,047.57	5,031.88	5,031.66	22.57	9.15	-179.21	-17.52	47.75	1,062.49	1,040.35	22.15	47.975	
5,300.00	5,146.70	5,131.33	5,131.12	22.83	9.36	-179.20	-17.93	47.88	1,075.77	1,053.21	22.56	47.684	
5,400.00	5,246.23	5,230.77	5,230.55	23.05	9.57	-179.19	-18.35	47.98	1,085.56	1,062.62	22.94	47.320	
5,500.00	5,346.04	5,329.54	5,329.32	23.22	9.79	-179.18	-18.73	48.15	1,091.94	1,068.65	23.29	46.884	
5,600.00	5,446.00	5,428.95	5,428.74	23.34	10.01	-179.16	-19.07	48.42	1,094.92	1,071.31	23.61	46.383	
5,627.01	5,473.00	5,456.15	5,455.93	23.37	10.08	94.48	-19.16	48.49	1,095.12	1,071.43	23.69	46.230	
5,700.00	5,545.99	5,529.67	5,529.45	23.44	10.25	94.49	-19.43	48.66	1,095.31	1,071.33	23.98	45.674	
5,800.00	5,645.99	5,630.26	5,630.04	23.55	10.47	94.51	-19.83	48.83	1,095.51	1,071.13	24.38	44.927	
5,900.00	5,745.99	5,730.58	5,730.36	23.66	10.70	94.53	-20.25	48.96	1,095.67	1,070.89	24.79	44.206	
6,000.00	5,845.99	5,829.91	5,829.68	23.77	10.93	94.55	-20.68	49.07	1,095.82	1,070.64	25.19	43.507	
6,100.00	5,945.99	5,927.00	5,926.77	23.89	11.15	94.59	-21.38	49.35	1,096.17	1,070.58	25.59	42.838	
6,200.00	6,045.99	6,025.85	6,025.62	24.00	11.37	94.64	-22.45	49.85	1,096.76	1,070.76	25.99	42.192	
6,300.00	6,145.99	6,130.07	6,129.82	24.12	11.61	94.72	-23.90	50.14	1,097.15	1,070.74	26.41	41.544	
6,400.00	6,245.99	6,232.52	6,232.26	24.24	11.84	94.81	-25.61	50.03	1,097.18	1,070.36	26.82	40.909	
6,422.82	6,268.81	6,255.07	6,254.81	24.27	11.88	94.83	-26.00	50.00	1,097.18	1,070.26	26.91	40.770	
6,500.00	6,345.99	6,331.38	6,331.10	24.36	12.05	94.90	-27.32	49.91	1,097.21	1,069.99	27.22	40.309	
6,600.00	6,445.99	6,430.66	6,430.37	24.48	12.27	94.99	-29.06	49.89	1,097.34	1,069.71	27.62	39.724	
6,700.00	6,545.99	6,530.88	6,530.58	24.61	12.50	95.09	-30.99	49.86	1,097.47	1,069.44	28.04	39.146	
6,800.00	6,645.99	6,631.02	6,630.70	24.73	12.72	95.20	-33.11	49.79	1,097.60	1,069.15	28.45	38.582	
6,900.00	6,745.99	6,731.00	6,730.65	24.86	12.95	95.30	-35.11	49.73	1,097.72	1,068.85	28.86	38.031	
7,000.00	6,845.99	6,830.03	6,829.66	24.98	13.17	95.39	-36.90	49.70	1,097.85	1,068.57	29.28	37.495	
7,100.00	6,945.99	6,926.91	6,926.53	25.11	13.40	95.49	-38.74	49.87	1,098.21	1,068.51	29.70	36.979	
7,200.00	7,045.99	7,024.71	7,024.30	25.24	13.63	95.59	-40.76	50.29	1,098.84	1,068.72	30.12	36.480	
7,300.00	7,145.99	7,125.32	7,124.89	25.37	13.88	95.70	-42.90	50.76	1,099.51	1,068.95	30.56	35.983	
7,400.00	7,245.99	7,224.63	7,224.18	25.51	14.12	95.81	-45.03	51.18	1,100.15	1,069.16	30.99	35.499	
7,500.00	7,345.99	7,320.16	7,319.69	25.64	14.35	95.90	-46.94	51.86	1,101.06	1,069.64	31.42	35.045	
7,600.00	7,445.99	7,400.00	7,399.51	25.78	14.55	95.98	-48.42	52.74	1,102.50	1,070.69	31.81	34.661	
7,700.00	7,545.99	7,400.00	7,399.51	25.91	14.55	95.98	-48.42	52.74	1,109.95	1,077.95	32.00	34.684	
7,800.00	7,645.99	7,400.00	7,399.51	26.05	14.55	95.98	-48.42	52.74	1,126.28	1,094.08	32.20	34.982	
7,900.00	7,745.99	7,400.00	7,399.51	26.19	14.55	95.98	-48.42	52.74	1,151.08	1,118.69	32.39	35.537	
8,000.00	7,845.99	7,400.00	7,399.51	26.33	14.55	95.98	-48.42	52.74	1,183.85	1,151.26	32.59	36.329	
8,100.00	7,945.99	7,400.00	7,399.51	26.47	14.55	95.98	-48.42	52.74	1,223.92	1,191.14	32.78	37.334	
8,200.00	8,045.99	7,400.00	7,399.51	26.61	14.55	95.98	-48.42	52.74	1,270.62	1,237.64	32.98	38.527	
8,300.00	8,145.99	7,400.00	7,399.51	26.76	14.55	95.98	-48.42	52.74	1,323.25	1,290.07	33.18	39.883	
8,400.00	8,245.99	7,400.00	7,399.51	26.90	14.55	95.98	-48.42	52.74	1,381.12	1,347.74	33.38	41.380	
8,500.00	8,345.99	7,400.00	7,399.51	27.05	14.55	95.98	-48.42	52.74	1,443.60	1,410.02	33.58	42.996	
8,566.01	8,412.00	7,400.00	7,399.51	27.14	14.55	95.98	-48.42	52.74	1,487.09	1,453.38	33.71	44.118	

Anadarko Petroleum Corporation

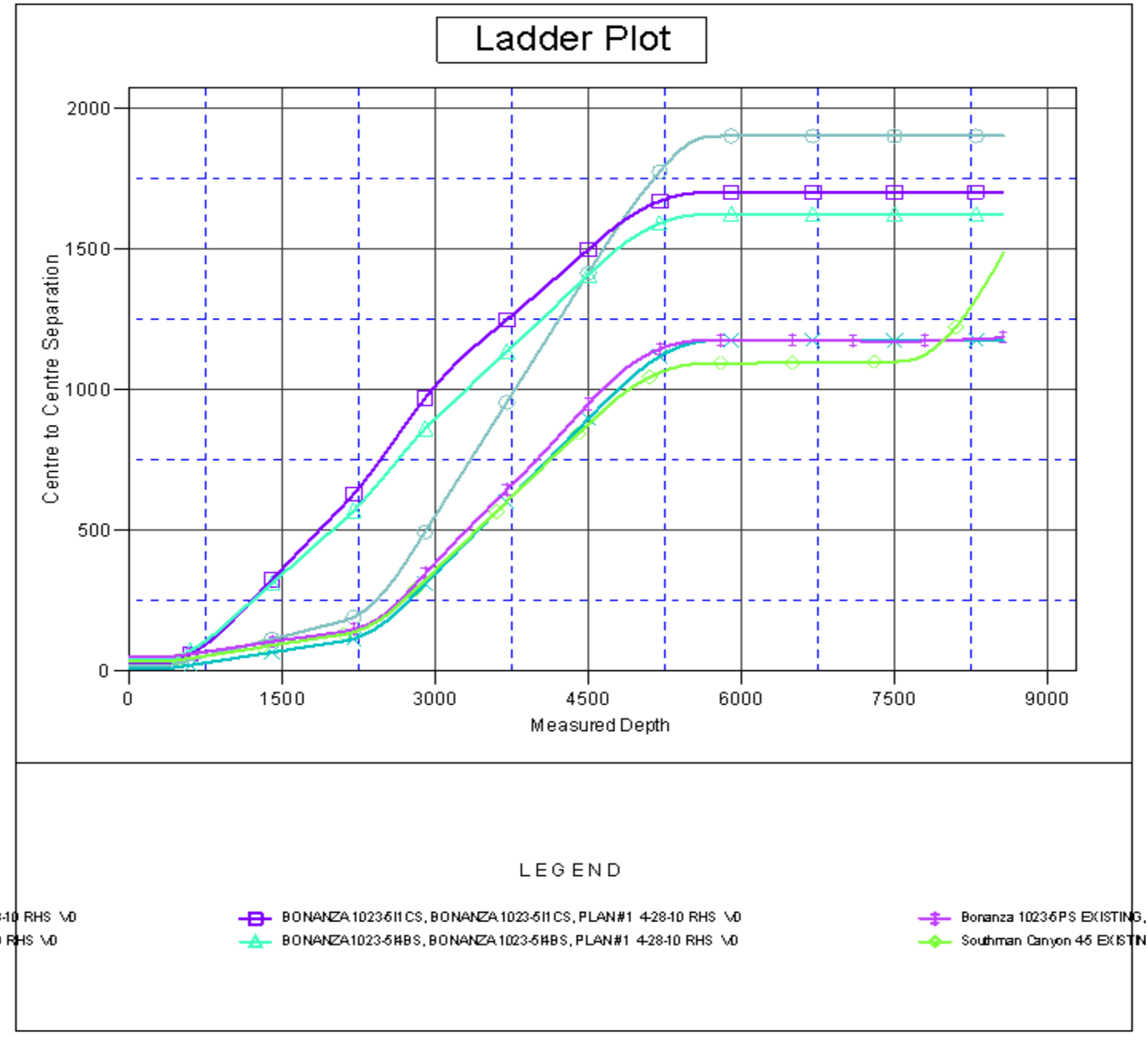
Weatherford International Ltd.

Anticollision Report

Weatherford

Company:	ANADARKO PETROLEUM CORP.	**Local Co-ordinate Reference:**	Well BONANZA 1023-5J3AS
Project:	UINTAH COUNTY, UTAH (nad 27)	**TVD Reference:**	WELL @ 5311.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-5I	**MD Reference:**	WELL @ 5311.00ft (Original Well Elev)
Site Error:	0.00ft	**North Reference:**	True
Reference Well:	BONANZA 1023-5J3AS	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00ft	**Output errors are at**	2.00 sigma
Reference Wellbore	BONANZA 1023-5J3AS	**Database:**	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 4-28-10 RHS	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to WELL @ 5311.00ft (Original Well Ele\Coordinates are relative to: BONANZA 1023-5J3AS
Offset Depths are relative to Offset Datum Coordinate System is Universal Transverse Mercator (US Survey Feet), Zone 12N
Central Meridian is 111° 0' 0.000 W ° Grid Convergence at Surface is: 1.06°



Anadarko Petroleum Corporation

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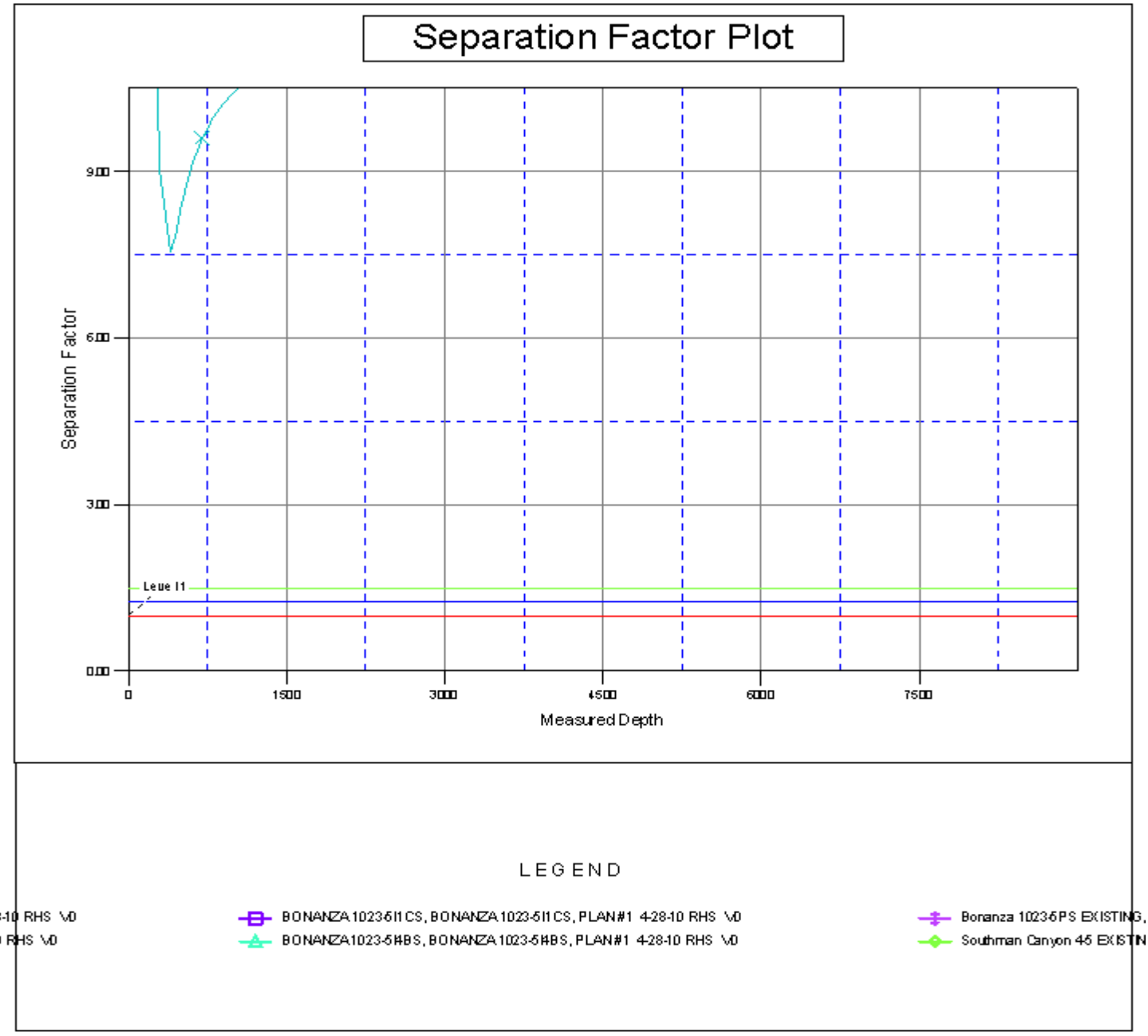
Reference Design:	PLAN #1 4-28-10 RHS	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to WELL @ 5311.00ft (Original Well Ele\Coordinates are relative to: BONANZA 1023-5J3AS
Offset Depths are relative to Offset Datum
Coordinate System is Universal Transverse Mercator (US Survey Feet), Zone 12N
Central Meridian is 111° 0' 0.000 W °
Grid Convergence at Surface is: 1.06°



Kerr-McGee Oil & Gas Onshore. L.P.

Bonanza 1023-5I Pad

API #	**BONANZA 1023-5G4DS**			
	Surface:	1625 FSL / 1048 FEL	NESE	Lot
	BHL:	2643 FNL / 1424 FEL	SWNE	Lot
API #	**BONANZA 1023-5I1BS**			
	Surface:	1629 FSL / 1039 FEL	NESE	Lot
	BHL:	2491 FSL / 376 FEL	NESE	Lot
API #	**BONANZA 1023-5I1CS**			
	Surface:	1634 FSL / 1030 FEL	NESE	Lot
	BHL:	2141 FSL / 460 FEL	NESE	Lot
API #	**BONANZA 1023-5I4BS**			
	Surface:	1639 FSL / 1021 FEL	NESE	Lot
	BHL:	1705 FSL / 475 FEL	NESE	Lot
API #	**BONANZA 1023-5J3AS**			
	Surface:	1620 FSL / 1056 FEL	NESE	Lot
	BHL:	1690 FSL / 2100 FEL	NWSE	Lot

This Surface Use Plan of Operations (SUPO) or 13-point plan provides site-specific information for the above-referenced wells.

In accordance with Utah Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling, these wells will be directionally drilled. Refer to Topo Map A for directions to the location and Topo Maps A and B for location of access roads within a 2-mile radius.

An on-site meeting was held on May 18, 2010. Present were:

- David Gordon, NRS; Kevin Sadiler, NRS; Ryan Angus, PET Engineer; Steve Strong, Reclamation; Dan Emmett, Wildlife Biologist - BLM;
- John Slaugh, Mitch Batty, Brian Venn, Jacob Dunham, Jake Edmunds, B.J. Reenders - 609 & Timberline Engineering & Land Surveying, Inc.
- Danielle Piernot and Kathy Schneebeck Dulnoan, Regulatory; Brad Burman, Completions; Clay Einerson, Construction; Grizz Oleen, Environmental; Charles Chase, Reclamation; Lovell Young, Drilling, Roger Parry and Ramey Hoopes, Construction

A. Existing Roads:

Existing roads consist of county and improved/unimproved access roads (two-tracks). In accordance with Onshore Order #1, Kerr-McGee will, in accordance with BMPs, improve or maintain existing roads in a condition that is the same as or better than before operations began. New or reconstructed proposed access roads are discussed in Section B.

The existing roads will be maintained in a safe and usable condition. Maintenance for existing roads will continue until final abandonment and reclamation of well pads and/or other facilities, as applicable. Road maintenance will include, but is not limited to, blading, ditching, and/or culvert installation and cleanout. To ensure safe operating conditions, gravel surfacing will be performed where excessive rutting or erosion may occur. Dust control will be performed as necessary to ensure safe operating conditions.

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Roads, gathering lines and electrical distribution lines will occupy common disturbance corridors where possible. Where available, roadways will be used as the staging area and working space for installation of gathering lines. All disturbances located in the same corridor will overlap each other to the maximum extent possible, while maintaining safe and sound construction and installation practices. Unless otherwise approved or requested in site specific documents, in no case will the maximum disturbance widths of the access road and utility corridors exceed the widths specified in Part D of this document.

All access roads leading to the pad are exsisting and on lease; therefore do not require a ROW.

** Please refer to Topo B

±225' (0.1 miles) – Section 5 T10S R23E (NE/4 SE/4) – On-lease UTU33433, from the proposed road re-route at the 1023-5I intersection to tie-in to the the county road intersection.

B. New or Reconstructed Access Roads:

All new or reconstructed roads will be located, designed, and maintained to meet the standards of the BLM. BMPs. Described in the BLM's Surface Operating Standards for Oil and Gas Exploration and Development, 4th Edition (Gold Book) (USDI and USDA, 2007) and/or BLM Manual Section 9113 (1985) will be considered in consultation with the BLM in the design, construction, improvement and maintenance of all new or reconstructed roads. If a new road would cross a water of the United States, Kerr-McGee will adhere to the requirements of applicable Nationwide Permits of the Department of Army Corps of Engineers.

Each new well pad or pad expansion may require construction of a new access road and/or de-commissioning of an older road. Plans, routes, and distances for new roads and road improvements are provided in design packages, exhibits and maps for a project. Project-specific maps are submitted to depict the locations of existing, proposed, and/or decommissioned and include the locations for supporting structures, including, but not limited to, culverts, bridges, low water crossings, range infrastructure, and haul routes, as per OSO 1. Designs for cuts and fills, including spoils source and storage areas, are provided with the road designs, as necessary.

Where safety objectives can be met. As applicable, Kerr-McGee may use unimproved and/or two-track roads for lease operations, to lessen total disturbance.

Road designs will be based on the road safety requirements, traffic characteristics, environmental conditions, and the vehicles the road is intended to carry. Generally, newly constructed unpaved lease roads will be crowned and ditched with the running surfaces of the roads approximately 12-18 feet wide and a total road corridor width not to exceed 45 feet, except where noted in the road design for a specific project. Maximum grade will generally not exceed 8%. Borrow ditches will be back sloped 3:1 or less. Construction BMPs will be employed to control onsite and offsite erosion.

Where topography would direct storm water runoff to an access road or well pad, drainage ditches or other common drainage control facilities, such as V- or wing-ditches, will be constructed to divert surface water runoff. Drainage features, including culverts, will be constructed or installed prior to commencing other operations, including drilling or facilities placement. Riprap will be placed at the inlet and outlet at the culvert(s), as necessary.

Prior to construction, new access road(s) will be staked according to the requirements of OSO 1. Construction activity will not be conducted using frozen or saturated materials or during periods when significant watershed damage (e.g. rutting, extensive sheet soil erosion, formation of rills/gullies, etc.) is likely to occur. Vegetative debris will not be placed in or under fill embankments.

New road maintenance will include, but is not limited to, blading, ditching, culvert installation and cleanout, gravel surfacing where excessive rutting or erosion may occur and dust control, as necessary to ensure safe operating

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conditions. All vehicular traffic, personnel movement, construction/restoration operations will be confined to the approved area and to existing roadways and/or access routes.

Snow removal will be conducted on an as-needed basis to accommodate safe travel. Snow removal will occur as necessary throughout the year, as will necessary drainage ditch construction. Removed snow may be stored on permitted well pads to reduce hauling distances and/or at the aerial extent of approved disturbance boundaries to facilitate snow removal for the remainder of the season.

If a county road crossing or encroachment permit is needed, it will be obtained prior to construction.

±320' (0.06 miles) – Section 5 T10S R23E (SE/4 SE/4) – On-lease UTU33433, from existing road traveling Northwest to re-route around the Bonanza 1023-5I pad to tie-in to the existing county road intersection.

** Please refer to Topo B

C. Location of Existing Wells:

A) Refer to Topo Map C.

D. Location of Existing and/or Proposed Facilities:

This pad will expand the existing pad for the Bonanza 1023-5PS, which is a producing gas well, and the Southman Canyon 4-5, which is a plugged and abandoned well according to the Utah Division of Oil, Gas and Mining (UDOGM) records on May 25, 2011. Gathering (pipeline) infrastructure will be utilized to collect and transport gas and fluids from the wells which are owned and operated by Kerr McGee Oil and Gas Onshore LP (Kerr-McGee).

Should the well(s) prove productive, production facilities will be installed on the disturbed portion of each well pad. A berm will be constructed completely around production components (typically excluding dehy's and/or separators) that contain fluids (i.e. production tanks, produced liquids tanks). The berms will generally be constructed of compacted subsoil or corrugated metal, and will hold the capacity of the largest tank and have sufficient freeboard to accomodate a 25 year rainfall event. This includes pumping units. Aboveground structures constructed or installed onsite for 6 months or longer, will be painted a flat, non-reflective, earth-tone color chosen at the onsite in coordination with the BLM (typically Shadow Gray). A production facility layout is provided as part of a project-specific APD, ROW or NOS submission.

GAS GATHERING

Please refer to Exhibit B and Topo D- Pad and Pipeline Detail.

The gas gathering pipeline material: Steel line pipe. Surface = Bare pipe. Buried = Coated with fusion bonded epoxy coating (or equivalent). The total gas gathering pipeline distance from the meter to the tie in point is ±820' and the individual segments are broken up as follows:

The following segments are "onlease", no ROW needed.

±680' (0.1 miles) – Section 5 T10S R23E (NE/4 SE/4) – On-lease UTU33433, BLM surface, New 6" buried gas gathering pipeline from the first meter house to the edge of the pad. Please refer to Topo D2 - Pad and Pipeline Detail.

±30' (0.01 miles) – Section 5 T10S R23E (NE/4 SE/4) – On-lease UTU33433, BLM surface, New 6" buried gas gathering pipeline from the edge of the pad to tie-in to the proposed 8" gas gathering pipeline at the1023-5P intersection. Please refer to Topo D and Exhibit A, Line 10

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±110’ (0.02 miles) – Section 5 T10S R23E (NE/4 SE/4) – On-lease UTU33433, BLM surface, New 8” buried gas gathering pipeline from the 1023-5P intersection to the existing 16" buried pipeline. Please refer to Exhibit A, Line 9. This pipeline will be used concurrently with the Bonanza 1023-5P Pad.

LIQUID GATHERING

The total liquid gathering pipeline distance from the separator to the tie in point is ±1,710’ and the individual segments are broken up as follows:

The following segments are "onlease", no ROW needed.

±680’ (0.1 miles) – Section 5 T10S R23E (NE/4 SE/4) – On-lease UTU33433, BLM surface, New 6” buried liquid gathering pipeline from the first meter house to the edge of the pad. Please refer to Topo D2 - Pad and Pipeline Detail.

±30’ (0.01 miles) – Section 5 T10S R23E (NE/4 SE/4) – On-lease UTU33433, BLM surface, New 6” buried liquid gathering pipeline from the edge of the pad to tie-in to the proposed 6" liquid gathering pipeline at the 1023-5P intersection. Please refer to Topo D and Exhibit B, Line 11.

±1,000’ (0.2 miles) – Section 5 T10S R23E (NE/4 SE/4) – Lease UTU33433, BLM surface, New 6" buried liquid gathering pipeline from the proposed 6" buried liquid at the 1023-5I intersection to the tie-in at the compressor station. Please refer to Exhibit B, Line 10. This pipeline will be used concurrently with the Bonanza 1023-5P Pad.

Pipeline Gathering Construction

Gathering (pipeline) infrastructure will be utilized to collect and transport gas and fluids from the wells which are owned and operated by Kerr McGee. Gas gathering pipeline(s,) gas lift, or liquids pipelines may be constructed to lie on the surface or be buried. Where the pipeline is adjacent to the road or well pad, the road and/or well pad will be utilized for construction activities and staging. The area of disturbance during construction from the edge of road or well pad will typically be 30' in width. Where pipelines run cross country, the width of disturbance will typically be 45 ft for buried lines and 30 ft for surface lines. In addition, Kerr-McGee requests for a permanent 30' distrubance width that will be maintained for the portion adjacent to the road. The need for the 30' permanent distrubance width is for maintenance and repairs. Cross country permanent distrubance width also are required to be 30ft.

Above-ground installation will generally not require clearing of vegetation or blading of the surface, except where safety considerations necessitate earthwork. In some surface pipeline installation instances pipe cannot be constructed where it will lay. In these cases where an above-ground pipeline is constructed parallel and adjacent to a road, it will be welded/fused on the road and then lifted from the road to the pipeline route. In other cases where a pipeline route is not parallel and adjacent to a road (cross-country between sites), it will be welded/fused in place at a well pad, access road, or designated work area and pulled between connection locations with a suitable piece of equipment.

Buried pipelines will generally be installed parallel and adjacent to existing and/or newly constructed roads and within the permitted disturbance corridor. Buried pipelines may vary from 2 inches (typically fuel gas lines) to 24 inches (typically transportation lines) in diameter, but 6 to 16 inches is typical for a buried gas line. The diameter of liquids pipelines may vary from 2 inches to 12 inches, but 6 inches is the typical diameter. Gas lift lines may vary from 2 to 12 inches in diameter, but 6-inch diameter pipes are generally used for gas lift. If two or more pipelines are present (gas gathering, gas lift, and fluids), they will share a common trench where possible.

Typically, to install a buried pipeline, topsoil will be removed, windrowed and placed on the non-working side of the route for later reclamation. Because working room is limited, the spoil may be spread out across the working side and construction will take place on the spoil. The working side of the corridor will be used for pipe stringing, bending, welding and equipment travel. Small areas on the working side displaying ruts or uneven ground will be groomed to facilitate the safe passage of equipment. After the pipelines are installed, spoil will be placed back into the trench, and the topsoil will be redistributed over the disturbed corridor prior to final reclamation. Typical depth of the trench will be 6 feet, but depths may vary

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according to site-specific conditions (presence of bedrock, etc.). The proposed trench width for the pipeline would range from 18-48 inches.

The pipeline will be welded along the proposed route and lowered into place. Trenching equipment will cut through the soil or into the bedrock and create good backfill, eliminating the need to remove large rocks. The proposed buried pipeline will be visually and radiographically inspected and the entire pipeline will be pneumatically or hydrostatically tested before being placed into service. Routine vehicle traffic will be prevented from using pipeline routes as travel ways by posting signs at the route's intersection with an access road.

The liquid gathering lines will be made of polyethylene or a composite polyethylene/steel or polyethylene/fiberglass that is not subject to internal or external pipe corrosion. The content of the produced fluids to be transferred by the liquid gathering system will be approximately 92% produced water and 8% condensate. Trunk line valve connections for the water gathering system will be below ground but accessible from the surface in order to prevent freezing during winter time.

If pipelines or roads encounter a drainage that could be subject to flooding or surface water during extreme precipitation events, Kerr-McGee will apply all applicable Army Corps mandates as well as the BLM's Hydraulic Considerations for Pipeline Crossings of Stream Channels (BLM Technical Note 423, April 2007). In addition, all stream and drainage crossings will be evaluated to determine the need for stream alteration permits from the State of Utah Division of Water Rights and if necessary, required permits will be secured. Similarly, where a road or pipeline crossing exists the pipe will be butt welded and buried to a depth between 24 and 48 inches or more. Dirt roads will be cut and restored to a condition equivalent to the existing condition. All Uintah County road encroachment and crossing permits, where applicable, will be obtained prior to crossing construction. In no case will pressure testing of pipelines result in discharge of liquids to the surface.

Pipeline signs will be installed along the route to indicate the pipeline proximity, ownership, and to provide emergency contact phone numbers. Above ground valves and lateral T's will be installed at various locations for production integrity and safety purposes.

Upon completion of the proposed buried pipeline, the entire area of disturbance will be reclaimed to the standards proposed in the Green River District Reclamation Guidelines. Please refer to section J for more details regarding final reclamation.

When no longer deemed necessary by the operator, Kerr-McGee or it's successor will consult with the BLM, Vernal Field Office before terminating of the use of the pipeline(s).

The Anadarko Completions Transportation System (ACTS) information:

Please refer to Exhibit C for ACTs Lines

Kerr-McGee will use either a closed loop drilling system that will require one pit and one storage area to be constructed on the drilling pad or a traditional drilling operation with one pit. The storage area will be used to contain only the de-watered drill cuttings and will be lined and reclaimed according to traditional pit closure standards. The pit will be constructed to allow for completion operations. The completion operations pit is lined and will be used for the wells drilled on the pad or used as part of our Anadarko Completions Transportation (ACTS) system which is disussed in more detail below. Using the closed loop drilling system will allow Kerr-McGee to decrease the amount of disturbance/footprint on location compared to a single large drilling/completion pit.

If Kerr-McGee does not use a closed loop system, it will construct a drilling reserve pit to contain drill cuttings and for use in completion operations. Depending on the location of the pit, its relation to future drilling locations, the reserve/completion pit will be utilized for the completion of the wells on that pad and/or be used as part of our ACTS system.

Kerr-McGee will use ACTS to optimize the completion processes for multiple pads across the project area which may include up to a section of development. ACTS will facilitate management of frac fluids by utilizing existing reserve pits and temporary, surface-laid aluminum liquids transfer lines between frac locations. The pit will be refurbished as follows

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when a traditional drill pit is used: mix and pile up drill cuttings with dry dirt, bury the original liner in the pit, walk bottom of pit with cat. Kerr-McGee will reline the pit with a 30 mil liner and double felt padding. The refurbished pit will be the same size or smaller as specified in the originally approved ROW/APD. The pit refurb will be done in a normal procedure and there will be no modification to the pit.

All four sides of the completions pit will be fenced in according to standard pit fencing procedures. Netting will be installed over all pits.

The collected hydrocarbons will be treated and sold at approved sales facilities. A loading rack with drip containment will also be installed where water trucks would unload and load to prevent damage caused from pulling hoses in and out of the pit .

ACTS will require temporarily laying multiple 6" aluminum water transfer lines on the surface between either existing or refurbished reserve pits. Please see the attached ACTS exhibit C for placement of the proposed temporary lines. The temporary aluminum transfer lines will be utilized to transport frac fluid being injected and/or recovered during the completion process and will be laid adjacent to existing access roads or pipeline corridors. Upon completion of the frac operation, the liquids transfer lines will be flushed with fresh water and purged with compressed air. The contents of the transfer lines will be flushed into a water truck for delivery to another ACTS location or a reserve pit.

The volume of frac fluid transported through a water transfer line will vary, but volume is projected to be approximately 1.75 bbls per 50-foot joint. Although the maximum working pressure is 125 psig, the liquids transfer lines will be operated at a pressure of approximately 30 to 40 psig. Kerr-McGee requests to keep the netted pit open for one year from first production of the first produced well on the pad. During this time the surrounding well location completion fluids may be recycled in this pit and utilized for other frac jobs in the area. After one year Kerr-McGee will backfill the pit and reclaim. If the pit is not needed for an entire year it will be backfilled and reclaimed earlier. Kerr-McGee understands that due to the temporary nature of this system, BLM considers this a casual use situation; therefore, no permanent ROW or temporary use plan will need to be issued by the BLM.

E. Location and Types of Water Supply:

Water for drilling and completion operations will be obtained from the following sources:

Permit # 49-2307	JD Field Services	Green River- Section 15, T2N, R22E
Permit # 49-2321	R.N. Industries	White River- Section 2, T10S, R24E
Permit # 49-2319	R.N. Industries	White River- Various Sources
Permit # 49-2320	R.N. Industries	Green River- Section 33, T8S, R23E

Water will be hauled to location over the roads marked on Maps A and B.

No water well is to be drilled on this lease.

F. Construction Materials:

Construction operations will typically be completed with native materials found on location. Construction materials that must be imported to the site (mineral material aggregate, soils or materials suitable for fill/surfacing) will be obtained from a nearby permitted source (described in site-specific documents). No construction materials will be removed from federal lands without prior approval from the BLM. A source location other than an on-location construction site will be designated either via a map or narrative within the project specific materials provided to the BLM.

G. Methods for Handling Waste:

All wastes subject to regulation will be handled in compliance with applicable laws to minimize the potential for leaks or spills to the environment. Kerr-McGee also maintains a Spill Control and Countermeasure Plan, which includes notification requirements, including the BLM, for all reportable spills of oil, produced liquids, and hazardous materials.

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Any accidental release, such as a leak or spill in excess of the reportable quantity, as established by 40 CFR Part 117.3, will be reported as per the requirements of CERCLA, Section 102 B. If a release involves petroleum hydrocarbons or produced liquids, Kerr-McGee will comply with the notification requirements of NTL-3A. Drill cuttings and/or drilling fluids will be contained in the reserve/frac pit whether a closed loop system is used or not. Cuttings will be buried in pit(s) upon closure. Unless specifically approved by the BLM, no oil or other oil-based drilling additives, chromium/metals-based, or saline muds will be used during drilling. Only fresh water (as specified above), biodegradable polymer soap, bentonite clay, and/or non-toxic additives will be used in the mud system.

Pits will be constructed to minimize the accumulation of surface precipitation runoff into the pit (via appropriate placement of subsoil storage areas and/or construction of berms, ditches, etc). Should unexpected liquid petroleum hydrocarbons (crude oil or condensate) be encountered during drilling, completions or well testing, liquid petroleum hydrocarbons will either be contained in test tanks on the well site or evacuated by vacuum trucks and transported to an approved disposal/ sales facility. Should petroleum hydrocarbons unexpectedly be released into a pit, they will be removed as soon as practical but in no case will they remain longer than 72 hours unless an alternate is approved by the BLM. Should timely removal not be feasible, the pit will be netted as soon as practical. Similarly, hydrocarbon removal will take place prior to the closure of the pit, unless authorization is provided for disposal via alternate pit closure methods (e.g. solidification).

The reserve and/or fracture stimulation pit will be lined with an impermeable liner. The liner will be a synthetic material 30 mil or thicker. The bottom and side walls of the pit will be void of any sharp rocks that could puncture the liner. The liner will be installed over smooth fill subgrade that is free of pockets, loose rocks, or other materials (i.e. sand, sifted dirt, bentonite, straw, etc.) that could damage the liner. After evaporation and when dry, the reserve pit liners will be cut off, ripped and/or folded back (as safety considerations allow) as near to the mud surface as possible and buried on location or hauled to a landfill prior to backfilling the pit with a minimum of five feet of soil material.

Where necessary and if conditions (freeboard, etc.) allow, produced liquids from newly completed wells may be temporarily disposed of into pits for a period not to exceed 90 days as per Onshore Order Number 7 (OSO 7). Subsequently, permanent approved produced water disposal methods will be employed in accordance with OSO 7 and/or as described in a Water Management Plan (WMP). Otherwise, fluids disposal locations and associated haul routes, for ROW consideration, are typically depicted on Topo A of individual projects. Revisions to the water source or method of transportation will be subject to written approval from the BLM.

Any additional pits necessary for subsequent operations, such as temporary flare or workover pits, will be contained within the originally approved well pad and disturbance boundaries. Such temporary pits will be backfilled and reclaimed within 180 days of completion of work at a well location.

Pits containing drilling cuttings, mud, and/or completions fluids will be allowed to dry. Any free fluids remaining after one year from reaching total depth, date of completion, and/or determination of inactivity will be removed (as weather conditions allow) to an approved site and the pit reclaimed. Installation and operation of any sprinklers, pumps, and equipment will ensure that water spray or mist does not drift.

No garbage or non-exempt substances as defined by Resource Conservation and Recovery Act (RCRA) subtitle C will be placed in the reserve pit. All refuse (trash and other solid waste including cans, paper, cable, etc.) generated during construction, drilling, completion, and well testing activities will be contained in an enclosed receptacle, removed from the drill locations promptly, and transported to an approved disposal facility. Immediately after removal of the drilling rig, all debris and other waste materials not contained within trash receptacles will be collected and removed from the well location.

For the protection of livestock and wildlife, all open pits (excluding flare pits) will be fenced to prevent wildlife or livestock entry. Total height of pit fencing will be at least 42 inches and corner posts will be cemented and/or braced in such a manner as to keep the fence tight at all times. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet. Siphons, catchments, and absorbent pads

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will be installed to keep hydrocarbons produced by the drilling rig or other equipment on location from entering the reserve pit. Hydrocarbons, contaminated pads, and/or soils will be disposed of in accordance with state and federal requirements.

Portable, self-contained chemical toilets and/or sewage processing facilities will be provided for human waste disposal. Upon completion of operations, or as required, the toilet holding tanks will be pumped and the contents disposed of in an approved sewage disposal facility. All applicable regulations pertaining to disposal of human and solid waste will be observed.

Materials Management

Hazardous materials above reportable quantities will not be produced by drilling or completing proposed wells or constructing the pipelines/facilities. The term “hazardous materials” as used here means: (1) any substance, pollutant, or containment listed as hazardous under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, as amended 42 U.S.C. 9601 et seq., and the regulations issued under CERCLA; and (2) any hazardous waste as defined in RCRA of 1976, as amended. In addition, no extremely hazardous substance, as defined in 40 CFR 355, in threshold planning quantities, would be used, produced, stored, transported, or disposed of while producing any well.

Hazardous materials may be contained in some grease or lubricants, solvents, acids, paint, and herbicides, among others as defined above. Kerr-McGee maintains a file, per 29 CFR 1910.1200 (g) containing current Material Safety Data Sheets (MSDS) for all chemicals, compounds, and/or substances that are used during the course of construction, drilling, completion, and production operations for this project. The transport, use, storage and handling of hazardous materials will follow procedures specified by federal and state regulations. Transportation of hazardous materials to the well location is regulated by the Department of Transportation (DOT) under 49 CFR, Parts 171-180. DOT regulations pertain to the packing, container handling, labeling, vehicle placarding, and other safety aspects.

Potentially hazardous materials used in the development or operation of wells will be kept in limited quantities on well sites and at the production facilities for short periods of time. Chemicals meeting the criteria for being an acutely hazardous material/substance or meet the quantities criteria per BLM Instruction Memorandum No. 93-344 will not be used.

Chemicals subject to reporting under Title III of the Superfund Amendments and Reauthorization Act (SARA) in quantities of 10,000 pounds or more may be produced and/or stored at production facilities (crude oil/condensate, produced water). They may also be kept in limited quantities on drilling sites (barite, diesel fuel, cement, cottonseed hulls etc.) for short periods of time during drilling or completion activities.

Fluids disposal and pipeline/haul routes are depicted on Topo Map A.

Any produced water separated from recoverable condensate from the proposed well will be contained in a water tank and will then be transported by pipeline and/or truck to one of the pre-approved disposal sites:

RNI in Sec. 5 T9S R22E
NBU #159 in Sec. 35 T9S R21E
Ace Oilfield in Sec. 2 T6S R20E
MC&MC in Sec. 12 T6S R19E
Pipeline Facility in Sec. 36 T9S R20E
Goat Pasture Evaporation Pond in SW/4 Sec. 16 T10S R22E
Bonanza Evaporation Pond in Sec. 2 T10S R23E

Or to one of the following Kerr-McGee active Salt Water Disposal (SWD) wells:

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NBU 159 SWD in Sec. 35 T9S R21E
CIGE 112D SWD in Sec. 19 T9S R21E
CIGE 114 SWD in Sec. 34 T9S R21E
NBU 921-34K SWD in Sec. 34 T9S R21E
NBU 921-33F SWD in Sec. 34 T9S R21E

H. Ancillary Facilities:

No additional ancillary facilities are planned for this location.

I. Well Site Layout:

The location, orientation and aerial extent of each drill pad, reserve/completion/flare pit (for closed loop or non-closed loop operations), access road ingress/egress points, drilling rig, dikes/ditches, existing wells/infrastructure, proposed cuts and fills, and topsoil and spoil material stockpile locations are depicted on the exhibits for each project, where applicable. Site-specific conditions may require slight deviation in actual equipment depending on whether a closed loop system is used. Surface distance may be less if using closed loop. But in either case, the area of distrubance will not exceed the maximum disturbance outlined in the attached exhibits.

For the protection of livestock and wildlife, all open pits and cellars will be fenced to prevent wildlife or livestock entry. Total height of pit fencing will be at least 42 inches and corner posts will be cemented and/or braced in such a manner as to keep the fence tight at all times. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.

Each well will utilize either a centralized tank battery, centralized fluids management system, or have tanks installed on its pad. Production/ Produced Liquid tanks will be constructed, maintained, and operated to prevent unauthorized surface or subsurface discharges of liquids and to prevent livestock or wildlife entry. The tanks will be kept reasonably free from surface accumulations of liquid hydrocarbons. The tanks are not to be used for disposal of liquids from additional sources without prior approval of BLM.

J. Plans for Surface Reclamation:

The surface reclamation will be undertaken in two phases: interim and final. Interim reclamation is conducted following well completion and extends through the period of production. Interim reclamation is for the area of the well pad that is not required for production activities. Final reclamation is conducted following well plugging/conversion and/or facility abandonment processes.

Reclamation activities in both phases may include but is not limited to the re-contouring or re-configuration of topographic surfaces, restoration of drainage systems, segregation of spoils materials, minimizing surface disturbance, re-evaluating backfill requirements, pit closure, topsoil redistribution, soil treatments, seeding and weed control.

Interim Reclamation

Interim reclamation may include pit evaporation, fluid removal, pit solidification, re-contouring, ripping, spreading top soil, seeding, and/or weed control. Interim reclamation will be performed in accordance with OSO 1, or written notification will be provided to the BLM for approval. Where feasible, drilling locations, reserve pits, or access routes not utilized for production operations will be re-contoured to a natural appearance.

Interim re-contouring involves bringing all construction material from cuts and fills back onto the well pad and site and reestablishing the natural contours where desirable and practical. Fill and stockpiled spoils no longer necessary to the operation will be spread on the cut slopes and covered with stockpiled topsoil. All stockpiled top soils will be used for

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interim reclamation where practical to maintain soil viability. Where possible, the land surface will be left "rough" after re-contouring to ensure that the maximum surface area will be available to support the reestablishment of vegetative cover.

A reserve pit, upon being allowed to dry, will be backfilled and compacted with cover materials that are void of any topsoil, vegetation, large stones, rocks or foreign objects. Soils that are moisture laden, saturated, or partially/completely frozen will not be used for backfill or cover. The pit area will be mounded to allow for settling and to promote positive surface drainage away from the pit. Disposal of pit fluids and linings is discussed in Section G.

Final Reclamation

Final reclamation will be performed for unproductive wells and after the end of the life of a productive well. As soon as practical after the conclusion of drilling and testing operations, unproductive drill holes will be plugged and abandoned (P&A). Site and road reclamation will commence following plugging. In no case will reclamation at non-producing locations be initiated later than six (6) months from the date a well is plugged. A joint inspection of the disturbed area to be reclaimed may be requested by Kerr-McGee. The primary purpose of this inspection will be to review the existing conditions, or agree upon a revised final reclamation and abandonment plan. The BLM will be notified prior to commencement of reclamation operations. A Notice of Intent to Abandon will be filed for final recommendations regarding surface reclamation.

After plugging, all wellhead equipment that is no longer needed will be removed, and the well site will be reclaimed. Final contouring will blend with and follow as closely as practical the natural terrain and contours of the original site and surrounding areas. After re-contouring the site to the approximate contour that existed prior to pad construction, final grading will be conducted over the entire surface of the well site and access road. The area will be ripped to a depth of 18 to 24 inches on 18 to 24-inch centers, where practical. The surface soil material will be pitted with small depressions to form longitudinal depressions 12 to 18 inches deep, where practical. The entire area will be uniformly covered with the depressions constructed perpendicular to the natural flow of water.

Reclamation of roads will be performed at the discretion of the BLM. All unnecessary surface equipment and structures (e.g. cattle guards) and water control structures (e.g. culverts, drainage pipes) not needed to facilitate successful reclamation will be removed during final reclamation. Roads that will be reclaimed will be ripped to a depth of 18 inches where practical, re-contoured to approximate the original contour of the ground and seeded in accordance with the seeding specifications of the BLM.

Upon successfully completing reclamation of a P&A location, a Final Abandonment Notice will be submitted to the BLM.

Measures Common to Interim and Final Reclamation

Soil preparation will be conducted using a disk for areas in need of more soil preparation following site preparation. This will provide primary soil tillage to a depth no greater than 6 inches. Prior to reseeding, compacted areas will be scarified by ripping or chiseling to loosen compacted soils, promote water infiltration, and improve soil aeration and root penetration.

Seeding will occur year-round as conditions allow and will typically be accomplished through the use of a no-till rangeland style seed drill with a "picker box" in order to seed "fluffy" seed. Where drill seeding is not the preferred method, seed will be broadcast and then raked into the ground at double the rate of drill seeding. Seed mixes appropriate to the native plant community as determined and specified for each project location based on the site specific soils will be used for re-vegetation. The seed mixes will be selected from a list provided by or approved by the BLM, or a specific seed mix will be proposed by Kerr-McGee to the BLM and used after its approval. The selected specific seed mix for each well location and road segment will be utilized while performing interim and final reclamation for each project. All seed will be certified and tags will be maintained by Kerr-McGee. Every effort will be made to obtain "cheat grass free seed".

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Seed Mix to be used for Well Site, Access Road, and Pipeline (as applicable):

Bonanza Area Mix	**Pure Live Seed lbs/acre**
Crested Wheat (Hycrest)	2
Bottlebrush Squirreltail	1
Western Wheatgrass	1
Indian Ricegrass	1
Fourwing Saltbush	2
Shadscale	2
Forage Kochia	0.25
Rocky Mountain Bee	0.5
Total	9.75

Additional soil amendments and/or stabilization may be required on sites with poor soils and/or excessive erosion potential. Where severe erosion can become a problem and/or the use of machinery is not practical, seed will be hand broadcast and raked with twice the specified amount of seed. Slopes will be stabilized using materials specifically designed to prevent erosion on steep slopes and hold seed in place so vegetation can become permanently established. These materials will include, but are not limited to: erosion control blankets, hydro-mulch, and/or bonded fiber matrix at a rate to achieve a minimum of 80 percent soil coverage. Soil amendments such as “Sustain” (an organic fertilizer that will be applied at the rate 1,800 – 2,100 lbs/acre with seed) may also be dry broadcast or applied with hydro-seeding equipment.

Weed Control

All weed management will be done in accordance with the Vernal BLM Surface Disturbance Weed Policy. Noxious weeds will be controlled, as applicable, on project areas. Monitoring and management of noxious and/or invasive weeds of concern will be completed annually until the project is deemed successfully reclaimed by the surface management agency and/or owner according to the Anadarko Integrated Weed Management Plan. Noxious weed infestations will be mapped using a GPS unit and submitted to the BLM with information required in the Vernal BLM Surface Disturbance Weed Policy. If herbicide is to be applied it will be done according to an approved Pesticide Use Permit (PUP), inclusive of applicable locations. All pesticide applications will be recorded using a Pesticide Application Record (PAR) and will be submitted along with a Pesticide Use Report (PUR) annually prior to Dec. 31.

Monitoring

Monitoring of reclaimed project areas will be completed annually during the growing season and actions to ensure reclamation success will be taken as needed. During the first two growing seasons an ocular methodology will be used to determine the success of the reclamation activities. During the 3rd growing season a 200 point line intercept (quantitative) methodology will be used to obtain basal cover. The goal is to have the reclaimed area reach 30% basal cover when compared to the reference site. If after three growing seasons the area has not reached 30% basal cover, additional reclamation activities may be necessary. Monitoring will continue until the reclaimed area reaches 75% basal cover of desirable vegetation when compared to the reference site. (Green River District Reclamation Guidelines)

All monitoring reports will be submitted electronically to the Vernal BLM in the form of a geo-database no later than March 1st of the calendar year following the data collection.

K. Surface/Mineral Ownership:

United States of America
Bureau of Land Management
170 South 500 East
Vernal, UT 84078
(435)781-4400

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L. Other Information:

Onsite Specifics:

- Facilities: Will be painted Shadow Grey
- Top Soil: Need to save 6" topsoil

Cultural and Paleontological Resources

All personnel are strictly prohibited from collecting artifacts, any paleontological specimens or fossils, and from disturbing any significant cultural resources in the area. If artifacts, fossils, or any culturally sensitive materials are exposed or identified in the area of construction, all construction operations that would affect the newly discovered resource will cease, and Kerr-McGee will provide immediate notification to the BLM.

Resource Reports:

A Class I literature survey was completed on April 23, 2010 by Montgomery Archaeological Consultants, Inc (MOAC). For additional details please refer to report MOAC 10-056.

A paleontological reconnaissance survey was completed on May 13, 2010 by SWCA Environmental Consultants. For additional details please refer to report UT10-14314-13.

Biological field survey was completed on April 21, 2010 by Grasslands Consulting, Inc (GCI). For additional details please refer to report GCI-205.

Proposed Action Annual Emissions Tables:

Table 1: Proposed Action Annual Emissions (tons/year)[1]

Pollutant	Development	Production	Total
NOx	3.8	0.12	3.92
CO	2.2	0.11	2.31
VOC	0.1	4.9	5
SO_2	0.005	0.0043	0.0093
PM_{10}	1.7	0.11	1.81
$PM_{2.5}$	0.4	0.025	0.425
Benzene	2.2E-03	0.044	0.046
Toluene	1.6E-03	0.103	0.105
Ethylbenzene	3.4E-04	0.005	0.005
Xylene	1.1E-03	0.076	0.077
n-Hexane	1.7E-04	0.145	0.145
Formaldehyde	1.3E-02	8.64E-05	1.31E-02

[1] Emissions include 1 producing well and associated operations traffic during the year in which the project is developed

Table 2: Proposed Action versus 2012 WRAP Phase III Emissions Inventory Comparison

Species	Proposed Action Production Emissions (ton/yr)	2012 Uintah Basin Emission Inventory[a] (ton/yr)	Percentage of Proposed Action to WRAP Phase III
NOx	19.6	16,547	0.12%
VOC	25	127,495	0.02%

[a] http://www.wrapair.org/forums/ogwg/PhaseIII_Inventory.html Uintah Basin Data

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M. Lessee's or Operators' Representative & Certification:

Gina T. Becker
Regulatory Analyst II
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6086

Tommy Thompson
General Manager, Drilling
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6724

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

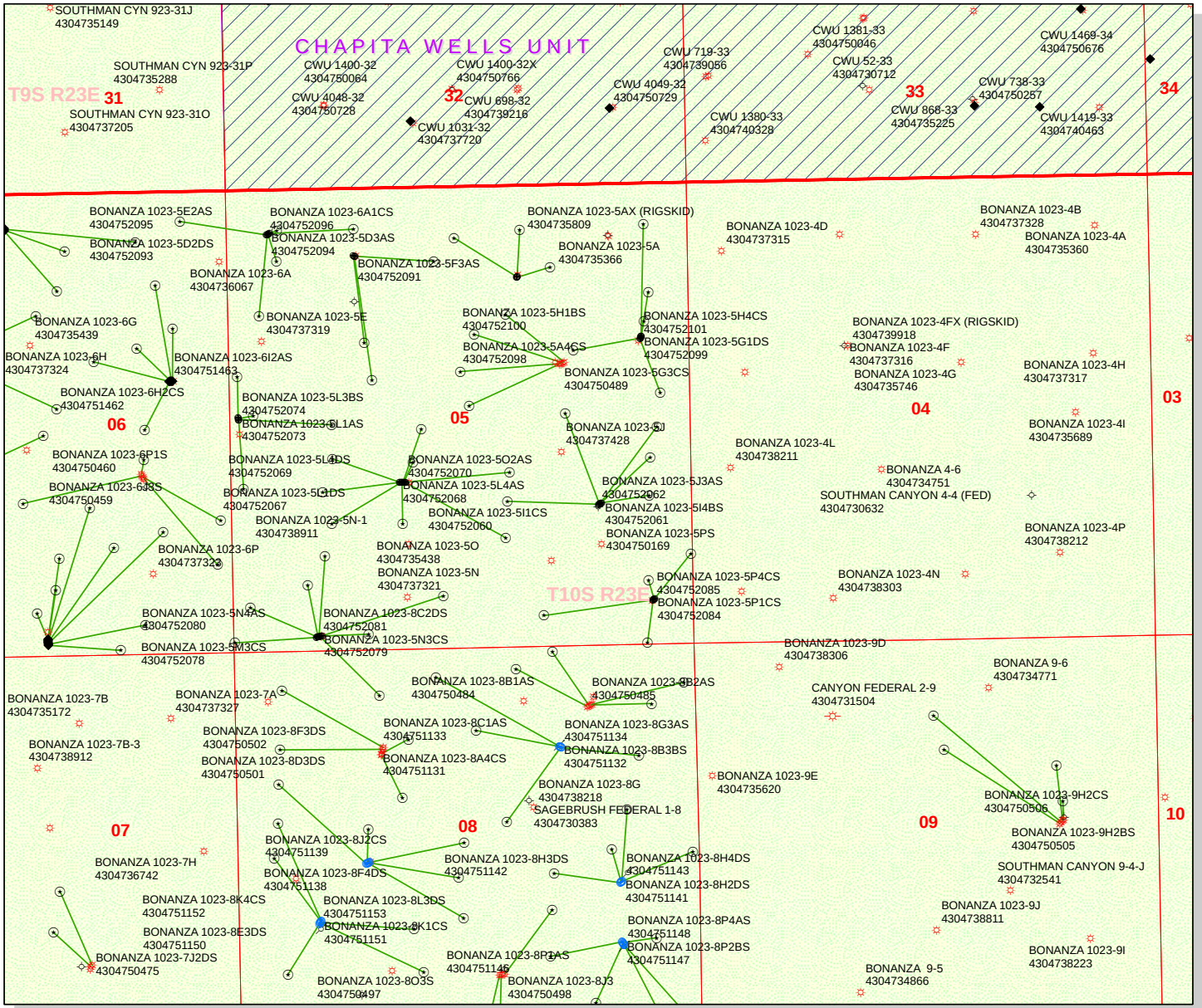
Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Bureau of Land Management Nationwide Bond WYB000291.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

Gina T.Becker

October 12, 2011
Date



API Number: 4304752062

Well Name: BONANZA 1023-5J3AS

Township T1.0 . Range R2.3 . Section 05

Meridian: SLBM

Operator: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Map Prepared:
Map Produced by Diana Mason

Units
STATUS
- ACTIVE
- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

Fields
STATUS
- Unknown
- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- STORAGE
- TERMINATED

Wells Query
Status
- APD - Aproved Permit
- DRL - Spuded (Drilling Commenced)
- GIW - Gas Injection
- GS - Gas Storage
- LA - Location Abandoned
- LOC - New Location
- OPS - Operation Suspended
- PA - Plugged Abandoned
- PGW - Producing Gas Well
- POW - Producing Oil Well
- RET - Returned APD
- SGW - Shut-in Gas Well
- SOW - Shut-in Oil Well
- TA - Temp. Abandoned
- TW - Test Well
- WDW - Water Disposal
- WIW - Water Injection Well
- WSW - Water Supply Well

1,500 750 0 1,500 Feet

1:14,184

RECEIVED: October 26, 2011

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 10/17/2011 **API NO. ASSIGNED:** 43047520620000
WELL NAME: BONANZA 1023-5J3AS
OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P. (N2995) **PHONE NUMBER:** 720 929-6086
CONTACT: Gina Becker

PROPOSED LOCATION: NESE 05 100S 230E **Permit Tech Review:** ☑
SURFACE: 1620 FSL 1056 FEL **Engineering Review:** ☑
BOTTOM: 1690 FSL 2100 FEL **Geology Review:** ☑
COUNTY: UINTAH
LATITUDE: 39.97516 **LONGITUDE:** -109.34513
UTM SURF EASTINGS: 641314.00 **NORTHINGS:** 4426311.00
FIELD NAME: NATURAL BUTTES
LEASE TYPE: 1 - Federal
LEASE NUMBER: UTU33433 **PROPOSED PRODUCING FORMATION(S):** WASATCH-MESA VERDE
SURFACE OWNER: 1 - Federal **COALBED METHANE:** NO

RECEIVED AND/OR REVIEWED:

- ☑ **PLAT**
- ☑ **Bond:** FEDERAL - WYB000291
- ☐ **Potash**
- ☐ **Oil Shale 190-5**
- ☐ **Oil Shale 190-3**
- ☐ **Oil Shale 190-13**
- ☑ **Water Permit:** 43-8496
- ☐ **RDCC Review:**
- ☐ **Fee Surface Agreement**
- ☑ **Intent to Commingle**

Commingling Approved

LOCATION AND SITING:

- ☐ **R649-2-3.**

Unit:

- ☐ **R649-3-2. General**
- ☐ **R649-3-3. Exception**
- ☑ **Drilling Unit**

Board Cause No: Cause 179-14
Effective Date: 6/12/2008
Siting: 460' Fr Ext Drl Unit Boundary

- ☑ **R649-3-11. Directional Drill**

Comments: Presite Completed

Stipulations:
3 - Commingling - ddoucet
4 - Federal Approval - dmason
15 - Directional - dmason

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GARY R. HERBERT
Governor
GREGORY S. BELL
Lieutenant Governor

State of Utah
DEPARTMENT OF NATURAL RESOURCES
MICHAEL R. STYLER
Executive Director
Division of Oil, Gas and Mining
JOHN R. BAZA
Division Director

Permit To Drill

****

Well Name: BONANZA 1023-5J3AS
API Well Number: 43047520620000
Lease Number: UTU33433
Surface Owner: FEDERAL
Approval Date: 10/26/2011

Issued to:
KERR-MCGEE OIL & GAS ONSHORE, L.P., P.O. Box 173779, Denver, CO 80217

Authority:
Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 179-14. The expected producing formation or pool is the WASATCH-MESA VERDE Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:
This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

Commingle:
In accordance with Board Cause No. 179-14, commingling of the production from the Wasatch formation and the Mesaverde formation in this well is allowed.

General:
Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:
State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

Notification Requirements:
The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well – contact Carol Daniels at 801-538-5284 (please leave a voicemail message if not available)
  OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at http://oilgas.ogm.utah.gov

Reporting Requirements:
All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) – due within 5 days of spudding the well
- Monthly Status Report (Form 9) – due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) – due prior to implementation
- Written Notice of Emergency Changes (Form 9) – due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) – due prior to implementation
- Report of Water Encountered (Form 7) – due within 30 days after completion
- Well Completion Report (Form 8) – due within 30 days after completion or plugging

Approved By:

For John Rogers
Associate Director, Oil & Gas

Form 3160-3
(August 2007)

UDOGM

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JUL 22 2011
BLM

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0136
Expires July 31, 2010

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: ☒ DRILL ☐ REENTER	5. Lease Serial No. UTU33433
	6. If Indian, Allottee or Tribe Name
	7. If Unit or CA Agreement, Name and No.
1b. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other ☐ Single Zone ☒ Multiple Zone	8. Lease Name and Well No. BONANZA 1023-5J3AS
2. Name of Operator KERR-MCGEE OIL & GAS ONSHORE LP Contact: GINA T BECKER E-Mail: GINA.BECKER@ANADARKO.COM	9. API Well No. 43.047.52062
3a. Address P.O. BOX 173779 DENVER, CO 80202-3779	3b. Phone No. (include area code) Ph: 720-929-6086 Fx: 720-929-7086
	10. Field and Pool, or Exploratory BONANZA
4. Location of Well *(Report location clearly and in accordance with any State requirements.*)* At surface NESE 1620FSL 1056FEL 39.975167 N Lat, 109.345096 W Lon At proposed prod. zone NWSE 1690FSL 2100FEL 39.975349 N Lat, 109.348819 W Lon	11. Sec., T., R., M., or Blk. and Survey or Area Sec 5 T10S R23E Mer SLB
14. Distance in miles and direction from nearest town or post office* APPROXIMATELY 48 MILES SOUTHEAST OF VERNAL, UTAH	12. County or Parish UINTAH / 13. State UT
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 1690	16. No. of Acres in Lease 1923.00 / 17. Spacing Unit dedicated to this well
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 628	19. Proposed Depth 8566 MD 8412 TVD / 20. BLM/BIA Bond No. on file WYB000291
21. Elevations (Show whether DF, KB, RT, GL, etc. 5299 GL	22. Approximate date work will start 12/31/2011 / 23. Estimated duration 60-90 DAYS

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature (Electronic Submission)	Name (Printed/Typed) GINA T BECKER Ph: 720-929-6086	Date 07/05/2011
Title REGULATORY ANALYST II		
Approved by (Signature)	Name (Printed/Typed) Jerry Kenczka	MAR 0 2 2012
Title Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

CONDITIONS OF APPROVAL ATTACHED

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Additional Operator Remarks (see next page)

Electronic Submission #112249 verified by the BLM Well Information System
For KERR-MCGEE OIL & GAS ONSHORE, sent to the Vernal

NOTICE OF APPROVAL

RECEIVED
MAR 14 2012
DIV. OF OIL, GAS & MINING

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE
170 South 500 East VERNAL, UT 84078 (435) 781-440(

CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company:	**Kerr McGee Oil & Gas Onshore, LP**	**Location:**	**NESE, Sec. 5, T10S, R23E (S) NWSE, Sec. 5, T10S, R23E (B)**
Well No:	**Bonanza 1023-5J3AS**	**Lease No:**	**UTU-33433**
API No:	**43-047-52062**	**Agreement:**	**N/A**

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

NOTIFICATION REQUIREMENTS

Location Construction (Notify Environmental Scientist)	-	Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	-	Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings to: ut_vn_opreport@blm.gov.
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

SURFACE USE PROGRAM
CONDITIONS OF APPROVAL (COAs)

- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horsepower must not emit more than 2 gms of NO_x per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.

- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO_x per horsepower-hour.

- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.

- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.

SITE SPECIFIC COAs

- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horse power must not emit more than 2 grams of NOx per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower-hour.

- All new and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gram of NOx per horsepower-hour.

- Construction or drilling is not allowed for the Bonanza 1023-5M and Bonanza 1023-5P pads from January 1 – August 31 to minimize impacts during golden eagle nesting.

- If it is anticipated that construction or drilling will occur during the given timing restriction, a BLM or qualified biologist shall be notified to conduct surveys for raptors. Depending upon the results of the surveys, permission to proceed may or may not be granted by the Authorized Officer.

- All reclamation will comply with the Green River Reclamation Guidelines

- All vehicles and equipment shall be cleaned either through power-washing, or other approved method, if the vehicles or equipment were previously operated outside the Uinta Basin, to prevent weed seed introduction.

- All disturbance areas shall be monitored for noxious weeds annually, for a minimum of three growing seasons following completion of project or until desirable vegetation is established

- Noxious and invasive weeds will be controlled throughout the area of project disturbance.

- Noxious weeds will be inventoried and reported to BLM in the annual reclamation report. Where an integrated pest management program is applicable, coordination has been undertaken with the state and local management program (if existing). A copy of the pest management plan will be submitted for each project.

- A pesticide use permit (PUP) will be obtained for the project, if applicable.

- A permitted paleontologist is to be present to monitor construction at well pads 1023-5C, 5D, 5K, 5L, 5M and 5P during all surface disturbing actives: examples include the following building of the well pad, access road, and pipelines.

- The best method to avoid entrainment is to pump from an off-channel location – one that does not connect to the river during high spring flows. An infiltration gallery constructed in a BLM and Service approved location is best.

- If the pump head is located in the river channel where larval fish are known to occur, the following measures apply:
    a. do not situate the pump in a low-flow or no-flow area as these habitats tend to concentrate larval fishes;
    b. limit the amount of pumping, to the greatest extent possible, during that period of the year when larval fish may be present (April 1 to August 31); and
    c. limit the amount of pumping, to the greatest extent possible, during the pre-dawn hours as larval drift studies indicate that this is a period of greatest daily activity.
- Screen all pump intakes with 3/32" mesh material.

- Approach velocities for intake structures will follow the National Marine Fisheries Service's document "Fish Screening Criteria for Anadromous Salmonids". For projects with an in-stream intake that operate in stream reaches where larval fish may be present, the approach velocity will not exceed 0.33 feet per second (ft/s).

- Report any fish impinged on the intake screen to the Service (801.975.3330) and the Utah Division of Wildlife Resources:
    Northeastern Region
    152 East 100 North, Vernal, UT 84078
    Phone: (435) 781-9453

- Discovery Stipulation: Re-initiation of section 7 consultation with the USFWS will be sought immediately if any loss of plants or occupied habitat for Pariette cactus or Uinta Basin hookless cactus is anticipated as a result of project activities.

DOWNHOLE PROGRAM
CONDITIONS OF APPROVAL (COAs)

SITE SPECIFIC DRILLING PLAN COA's:

- A copy of Kerr McGee's Standard Operating Practices (SOP version: dated 7/17/08 and approved 7/28/08) shall be on location.
- Surface casing cement shall be brought to surface.
- Production casing cement shall be brought 200' up and into the surface casing.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned.
- Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.

- **Cement baskets shall not be run on surface casing.**

- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.

- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.

- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.

- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.

- **Please submit an electronic copy of all other logs run on this well in LAS format to UT_VN_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**

- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.

- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at www.ONRR.gov.

- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:

    - Operator name, address, and telephone number.
    - Well name and number.
    - Well location (¼¼, Sec., Twn, Rng, and P.M.).
    - Date well was placed in a producing status (date of first production for which royalty will be paid).
    - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
    - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
    - Unit agreement and/or participating area name and number, if applicable.
    - Communitization agreement number, if applicable.

- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.

- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.

- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.

- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.

- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.

- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.

- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.

- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.

- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

SUBMIT AS EMAIL | Print Form

BLM - Vernal Field Office - Notification Form

Operator KERR-McGEE OIL & GAS Rig Name/# BUCKET RIG
Submitted By J. Scharnowske Phone Number 720.929.6304
Well Name/Number BONANZA 1023-5J3AS
Qtr/Qtr NESE Section 5 Township 10S Range 23E
Lease Serial Number UTU33433
API Number 4304752062

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time 05/21/2012 13:00 HRS AM ☐ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☑ Surface Casing
- ☐ Intermediate Casing
- ☐ Production Casing
- ☐ Liner
- ☐ Other

Date/Time 06/14/2012 08:00 HRS AM ☐ PM ☐

BOPE

- ☐ Initial BOPE test at surface casing point
- ☐ BOPE test at intermediate casing point
- ☐ 30 day BOPE test
- ☐ Other

Date/Time _____ _____ AM ☐ PM ☐

RECEIVED
MAY 18 2012
DIV. OF OIL, GAS & MINING

Remarks ESTIMATED DATE AND TIME. PLEASE CONTACT KENNY GATHINGS AT 435.828.0986 OR LOVEL YOUNG AT 435.781.7051

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU33433

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: BONANZA 1023-5J3AS

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047520620000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6514

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1620 FSL 1056 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESE Section: 05 Township: 10.0S Range: 23.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
✓ SPUD REPORT Date of Spud: 5/22/2012	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

MIRU TRIPPLE A BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'. RAN 14" 36.7# SCHEDULE 10 PIPE. CMT W/28 SX READY MIX. SPUD WELL ON 05/22/2012 AT 0800 HRS.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
May 24, 2012

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Sheila Wopsock	435 781-7024	Regulatory Analyst
SIGNATURE		**DATE**
N/A		5/24/2012

Sundry Number: 25772 API Well Number: 43047520620000

FEDERAL APPROVAL OF THIS ACTION IS NECESSARY

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER:
UTU33433

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL
Gas Well

8. WELL NAME and NUMBER:
BONANZA 1023-5J3AS

2. NAME OF OPERATOR:
KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER:
43047520620000

3. ADDRESS OF OPERATOR:
P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER:
720 929-6526

9. FIELD and POOL or WILDCAT:
NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
1620 FSL 1056 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: NESE Section: 05 Township: 10.0S Range: 23.0E Meridian: S

COUNTY:
UINTAH

STATE:
UTAH

11.
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 5/16/2012	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	✓ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ SPUD REPORT Date of Spud:	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

THE OPERATOR REQUESTS APPROVAL FOR A FIT WAIVER, A CLOSED LOOP DRILLING OPTION, AND A PRODUCTION CASING CHANGE. ALL OTHER ASPECTS OF THE PREVIOUSLY APPROVED DRILLING PLAN WILL NOT CHANGE. PLEASE SEE THE ATTACHMENT. THANK YOU.

Accepted by the Utah Division of Oil, Gas and Mining

Date: May 24, 2012

By: Dark K Quist

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Cara Mahler	720 929-6029	Regulatory Analyst I
SIGNATURE		**DATE**
N/A		5/16/2012

RECEIVED: May. 16, 2012

Kerr-McGee Oil & Gas Onshore. L.P.

BONANZA 1023-5J3AS

Surface: 1620 FSL / 1056 FEL NESE
BHL: 1690 FSL / 2100 FEL NWSE

Section 5 T10S R23E

Uintah County, Utah
Mineral Lease: UTU-33433

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. & 2. **Estimated Tops of Important Geologic Markers:**
Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

Formation	Depth	Resource
Uinta	0 - Surface	
Green River	1,237'	
Birds Nest	1,486'	Water
Mahogany	1,846'	Water
Wasatch	4,200'	Gas
Mesaverde	6,241'	Gas
Sego	8,412'	Gas
TVD	8,412'	
TD	8,566'	

3. **Pressure Control Equipment** (Schematic Attached)

Please refer to the attached Drilling Program

4. **Proposed Casing & Cementing Program:**

Please refer to the attached Drilling Program

5. **Drilling Fluids Program:**

Please refer to the attached Drilling Program

6. **Evaluation Program:**

Please refer to the attached Drilling Program

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7. Abnormal Conditions:

Maximum anticipated bottom hole pressure calculated at 8412' TVD, approximately equals 5,384 psi 0.64 psi/ft = actual bottomhole gradient

Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

Maximum anticipated surface pressure equals approximately 3,521 psi (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

Per Onshore Order No. 2 - Max Anticipated Surf. Press.(MASP) = (Pore Pressure at next csg point-
(0.22 psi/ft-partial evac gradient x TVD of next csg point))

8. Anticipated Starting Dates:

Drilling is planned to commence immediately upon approval of this application.

9. Variances:

Please refer to the attached Drilling Program.
Onshore Order #2 – Air Drilling Variance

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a variance to several requirements associated with air drilling outlined in Onshore Order 2

- Blowout Prevention Equipment (BOPE) requirements;
- Mud program requirements; and
- Special drilling operation (surface equipment placement) requirements associated with air drilling.

This Standard Operating Practices addendum provides supporting information as to why KMG current air drilling practices for constructing the surface casing hole should be granted a variance to Onshore Order 2 air drilling requirements.

The reader should note that the air rig is used only to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig, and is used to drill and construct the majority of the wellbore.

More notable, KMG has used the air rig layout and procedures outlined below to drill the surface casing hole in approximately 675 wells without incident of blow out or loss of life.

Background

In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet. The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.

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Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may be set deeper in areas that the surface formation is not found competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

The air rig is then mobilized to drill the surface casing hole by drilling a 12 1/4 inch hole for the first 200 feet, then will drill a 11inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 11 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 8-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.

Variance for BOPE Requirements
The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.

Variance for Mud Material Requirements
Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.

Variance for Special Drilling Operation (surface equipment placement) Requirements
Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.

Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KMG well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and

on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot light on the blooie line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations.

Variance for FIT Requirements

KMG also respectfully requests a variance to Onshore Order 2, Section III, Part Bi, for the pressure integrity test (PIT, also known as a formation integrity test (FIT)). This well is not an exploratory well and is being drilled in an area where the formation integrity is well known. Additionally, when an FIT is run with the mud weight as required, the casing shoe frequently breaks down and causes subsequent lost circulation when drilling the entire depth of the well.

Conclusion

The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above.

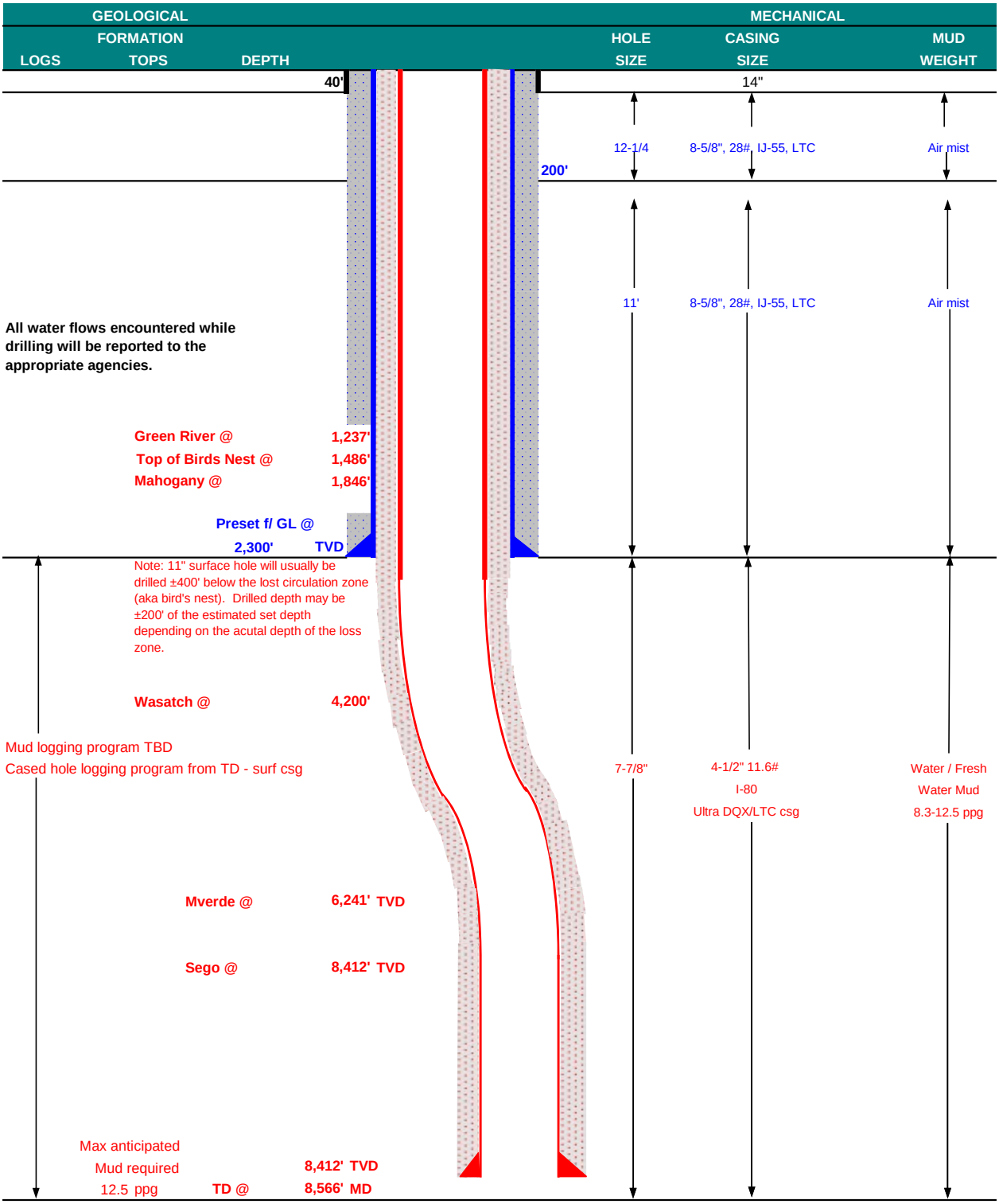
10. Other Information:

Please refer to the attached Drilling Program.

KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP	DATE	May 16, 2012
WELL NAME	**BONANZA 1023-5J3AS**	TD	8,412' TVD 8,566' MD
FIELD	Natural Buttes	COUNTY Uintah STATE Utah	FINISHED ELEVATION 5296.8
SURFACE LOCATION	NESE 1620 FSL 1056 FEL	Sec 5 T 10S R 23E	
	Latitude: 39.975167	Longitude: -109.345096	NAD 83
BTM HOLE LOCATION	NWSE 1690 FSL 2100 FEL	Sec 5 T 10S R 23E	
	Latitude: 39.975349	Longitude: -109.348819	NAD 83
OBJECTIVE ZONE(S)	Wasatch/Mesaverde		
ADDITIONAL INFO	Regulatory Agencies: BLM (Minerals), BLM (Surface), UDOGM Tri-County Health Dept.		



KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL			WT.	GR.	CPLG.	DESIGN FACTORS BURST	COLLAPSE	LTC	DQX TENSION
CONDUCTOR	14"	0-40'									
								3,390	1,880	348,000	N/A
SURFACE	8-5/8"	0	to	2,300	28.00	IJ-55	LTC	2.35	1.75	6.17	N/A
								7,780	6,350	223,000	267,035
PRODUCTION	4-1/2"	0	to	5,000	11.60	I-80	DQX	1.11	1.16		3.32
								7,780	6,350	223,000	267,035
	4-1/2"	5,000	to	8,566'	11.60	I-80	LTC	1.11	1.16	6.66	

Surface Casing:

(Burst Assumptions: TD = 12.5 ppg) 0.73 psi/ft = frac gradient @ surface shoe

Fracture at surface shoe with 0.1 psi/ft gas gradient above

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

Production casing:

(Burst Assumptions: Pressure test with 8.4ppg @ 7000 psi) 0.64 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl	180	60%	15.80	1.15
Option 1			+ 0.25 pps flocele				
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	270	0%	15.80	1.15
			+ 2% CaCl + 0.25 pps flocele				
SURFACE			**NOTE: If well will circulate water to surface, option 2 will be utilized**				
Option 2	LEAD	1,800'	65/35 Poz + 6% Gel + 10 pps gilsonite	170	35%	11.00	3.82
			+ 0.25 pps Flocele + 3% salt BWOW				
	TAIL	500'	Premium cmt + 2% CaCl	150	35%	15.80	1.15
			+ 0.25 pps flocele				
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION	LEAD	3,696'	Premium Lite II +0.25 pps	290	35%	12.00	3.38
			celloflake + 5 pps gilsonite + 10% gel				
			+ 0.5% extender				
	TAIL	4,870'	50/50 Poz/G + 10% salt + 2% gel	1,150	35%	14.30	1.31
			+ 0.1% R-3				

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. 15 centralizers for a Mesaverde and 20 for a Blackhawk well. 1 centralizer on the first 3 joints and one every third joint thereafter.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Surveys will be taken at 1,000' minimum intervals.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER: _____ **DATE:** _____

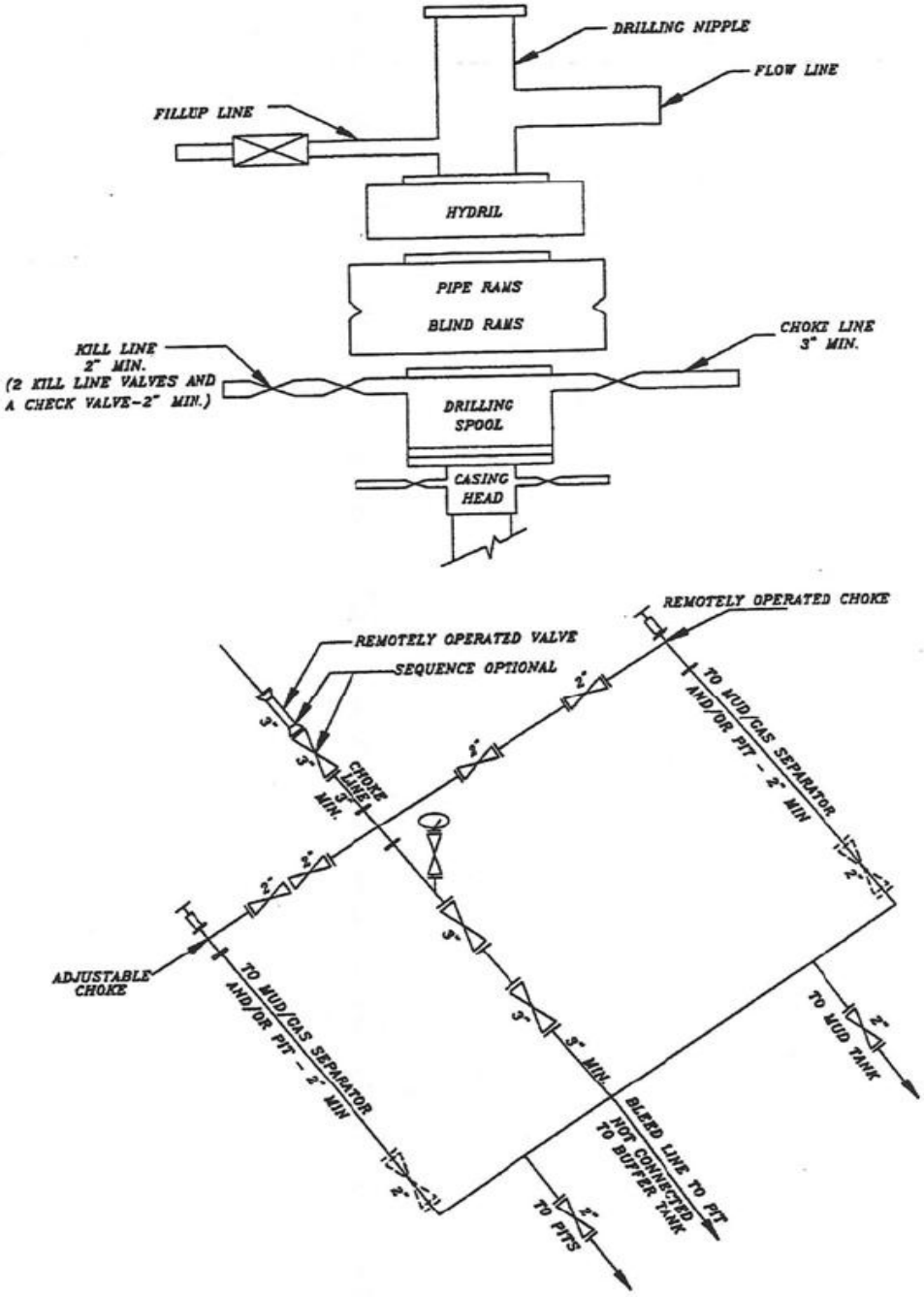
Nick Spence / Danny Showers / Chad Loesel

DRILLING SUPERINTENDENT: _____ **DATE:** _____

Kenny Gathings / Lovel Young

RECEIVED: May. 16, 2012

EXHIBIT A
BONANZA 1023-5J3AS



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

RECEIVED: May. 16, 2012

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU33433

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: PONDEROSA

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: BONANZA 1023-5J3AS

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047520620000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779 **PHONE NUMBER:** 720 929-6526

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1620 FSL 1056 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESE Section: 05 Township: 10.0S Range: 23.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
✓ DRILLING REPORT Report Date: 6/4/2012	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

MIRU AIR RIG ON 6/2/2012. DRILLED SURFACE HOLE TO 2460'. RAN SURFACE CASING AND CEMENTED. WELL IS WAITING ON ROTARY RIG. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH WELL COMPLETION REPORT.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
June 06, 2012

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Cara Mahler	720 929-6029	Regulatory Analyst I
SIGNATURE N/A		**DATE** 6/6/2012

RECEIVED: Jun. 06, 2012

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: KERR McGEE OIL & GAS ONSHORE LP
Operator Account Number: N 2995
Address: 1368 SOUTH 1200 EAST
city VERNAL
state UT zip 84078
Phone Number: (435) 781-7024

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304752058	BONANZA 1023-5G4DS		NESE	5	10S	23E	UINTAH
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
B	99999	19519	5/21/2012			5/30/2012	
Comments: MIRU TRIPPLE A BUCKET RIG. SPUD WELL ON 05/21/2012 AT 1600 HRS. Add to Ponderosa WSMVD BHL: None							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304752062	BONANZA 1023-5J3AS		NESE	5	10S	23E	UINTAH
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
B	99999	19519	5/22/2012			5/30/2012	
Comments: MIRU TRIPPLE A BUCKET RIG. SPUD WELL ON 05/22/2012 AT 0800 HRS. Ponderosa Unit WSMVD BHL: None							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
Comments:							

ACTION CODES:

- **A** - Establish new entity for new well (single well only)
- **B** - Add new well to existing entity (group or unit well)
- **C** - Re-assign well from one existing entity to another existing entity
- **D** - Re-assign well from one existing entity to a new entity
- **E** - Other (Explain in 'comments' section)

SHEILA WOPSOCK
Name (Please Print)
Signature
REGULATORY ANALYST 5/24/2012
Title Date

RECEIVED
MAY 29 2012
Div. of Oil, Gas & Mining

(5/2000)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU33433

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: PONDEROSA

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: BONANZA 1023-5J3AS

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047520620000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6526

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1620 FSL 1056 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESE Section: 05 Township: 10.0S Range: 23.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
✓ SUBSEQUENT REPORT Date of Work Completion: 7/1/2012	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	✓ OTHER	OTHER: RIG REL. - ACTS PIT

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

MIRU ROTARY RIG. FINISHED DRILLING FROM 2460' TO 8604' ON JUNE 29, 2012. RAN 4-1/2" 11.6# I-80 PRODUCTION CASING. CEMENTED PRODUCTION CASING. RELEASED XTREME RIG 12 ON JULY 1, 2012 @ 15:30 HRS. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH THE WELL COMPLETION REPORT. WELL IS WAITING ON FINAL COMPLETION ACTIVITIES. THE PIT ON THIS LOCATION WILL BE REFURBISHED AND UTILIZED AS PART OF THE ACTS SYSTEM.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
July 10, 2012

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Jaime Scharnowske	720 929-6304	Regulartory Analyst
SIGNATURE N/A		**DATE** 7/2/2012

RECEIVED: Jul. 02, 2012

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER:
UTU33433

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:
PONDEROSA

1. TYPE OF WELL
Gas Well

8. WELL NAME and NUMBER:
BONANZA 1023-5J3AS

2. NAME OF OPERATOR:
KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER:
43047520620000

3. ADDRESS OF OPERATOR:
P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER:
720 929-6526

9. FIELD and POOL or WILDCAT:
NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
1620 FSL 1056 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: NESE Section: 05 Township: 10.0S Range: 23.0E Meridian: S

COUNTY:
UINTAH

STATE:
UTAH

11.
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
✓ DRILLING REPORT Report Date: 9/4/2012	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
No Activity for the month of August 2012. Well TD at 8,604

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
September 07, 2012

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Lindsey Frazier	720 929-6857	Regulatory Analyst II
SIGNATURE		**DATE**
N/A		9/4/2012

RECEIVED: Sep. 04, 2012

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER:
UTU33433

SUNDRY NOTICES AND REPORTS ON WELLS

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6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:
PONDEROSA

1. TYPE OF WELL
Gas Well

8. WELL NAME and NUMBER:
BONANZA 1023-5J3AS

2. NAME OF OPERATOR:
KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER:
43047520620000

3. ADDRESS OF OPERATOR:
P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER:
720 929-6526

9. FIELD and POOL or WILDCAT:
NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
1620 FSL 1056 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: NESE Section: 05 Township: 10.0S Range: 23.0E Meridian: S

COUNTY:
UINTAH

STATE:
UTAH

11.
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
✓ DRILLING REPORT Report Date: 9/17/2012	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	✓ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

THE SUBJECT WELL WAS PLACED ON PRODUCTION ON 09/17/2012. THE CHRONOLOGICAL WELL HISTORY WILL BE SUBMITTED WITH THE WELL COMPLETION REPORT.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
September 25, 2012

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Lindsey Frazier	720 929-6857	Regulatory Analyst II
SIGNATURE		**DATE**
N/A		9/20/2012

Form 3160-4
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No. UTU33433

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.
Other

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No. UTU88209A

2. Name of Operator KERR MCGEE OIL & GAS ONSHORE LP — Contact: JAIME L. SCHARNOWSKE — E-Mail: JAIME.SCHARNOWSKE@ANADARKO.COM

8. Lease Name and Well No. BONANZA 1023-5J3AS

3. Address PO BOX 173779 DENVER, CO 80217

3a. Phone No. (include area code) Ph: 720-929-6304

9. API Well No. 43-047-52062

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

At surface NESE 1620FSL 1056FEL 39.975167 N Lat, 109.345096 W Lon

At top prod interval reported below NWSE 1689FSL 2113FEL

At total depth NWSE 1675FSL 2118FEL BHL by HSM

10. Field and Pool, or Exploratory NATURAL BUTTES

11. Sec., T., R., M., or Block and Survey or Area Sec 5 T10S R23E Mer SLB

12. County or Parish UINTAH — 13. State UT

14. Date Spudded 05/22/2012

15. Date T.D. Reached 06/29/2012

16. Date Completed ☐ D & A ☒ Ready to Prod. 09/17/2012

17. Elevations (DF, KB, RT, GL)* 5297 GL

18. Total Depth: MD 8604 TVD 8439

19. Plug Back T.D.: MD 8546 TVD 8381

20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each) CBL/GR/CCL/TEMP

22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit analysis)
Directional Survey? ☐ No ☒ Yes (Submit analysis)

23. Casing and Liner Record *(Report all strings set in well)*

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
20.000	14.000 STL	36.7	0	40		28			
11.000	8.625 IJ-55	28.0	0	2446		450		0	
7.875	4.500 I-80	11.6	0	8593		1330		1820	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.375	8035							

25. Producing Intervals / 26. Perforation Record

	Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A)	WASATCH	6173	6357	6173 TO 6357	0.360	21	OPEN
B)	MESAVERDE	7006	8473	7006 TO 8473	0.360	189	OPEN
C)							
D)							

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
6173 TO 8473	PUMP 10,535 BBLS SLICK H2O & 219,200 LBS 30/50 OTTAWA SAND

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
09/17/2012	09/26/2012	24	→	0.0	1626.0	0.0			FLOWS FROM WELL

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
20/64	990 SI	1389.0	→	0	1626	0		PGW

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
			→					

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #153788 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED

RECEIVED
OCT 16 2012
DIV. OF OIL, GAS & MINING

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
			→					

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
			→					

29. Disposition of Gas *(Sold, used for fuel, vented, etc.)*
SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
				GREEN RIVER	1163
				BIRD'S NEST	1355
				MAHOGANY	1896
				WASATCH	4381
				MESAVERDE	6436

32. Additional remarks (include plugging procedure):
The first 210?of the surface hole was drilled with a 12 ?? bit. The remainder of surface hole was drilled with an 11? bit. DQX csg was run from surface to 5027 ft; LTC csg was run from 5,027 ft to 8,593 ft. Attached is the chronological well history, perforation report & final survey.

33. Circle enclosed attachments:

1. Electrical/Mechanical Logs (1 full set req'd.)
2. Geologic Report
3. DST Report
4. Directional Survey
5. Sundry Notice for plugging and cement verification
6. Core Analysis
7 Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #153788 Verified by the BLM Well Information System.
For KERR MCGEE OIL & GAS ONSHORE,L, sent to the Vernal

Name *(please print)* JAIME L. SCHARNOWSKE Title REGULATORY ANALYST

Signature (Electronic Submission) Date 10/08/2012

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fradulent statements or representations as to any matter within its jurisdiction.

**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ****

US ROCKIES REGION

Operation Summary Report

Well: BONANZA 1023-5J3AS ORANGE		Spud Date: 6/2/2012
Project: UTAH-UINTAH	Site: BONANZA 1023-5I PAD	Rig Name No: PROPETRO 12/12, XTC 12/12
Event: DRILLING	Start Date: 5/16/2012	End Date: 7/1/2012
Active Datum: RKB @5,312.00usft (above Mean Sea Level)	UWI: NE/SE/0/10/S/23/E/5/0/0/26/PM/S/1620/E/0/1056/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
6/2/2012	18:00 - 20:00	2.00	DRLSUR	01	C	P		WAITON CEMENT AND SKID RIG TO LAST WELL ON PAD
	20:00 - 21:30	1.50	DRLSUR	02	C	P		SPUD 06/2/12 20:00 hrs. DRILL 12.25" HOLE 44'-210' (166', 110'/PER HOUR). 12.25 in. BIT ON 55 th RUN. WEIGHT ON BIT 5-15 K. STROKES PER MINUTE 120 GALLONS PER MINUTE 491. PRESSURE ON/OFF (BOTTOM) 800/600. ROTARY RPM 55, MOTOR RPM 83, TOTAL RPM 138. UP/DOWN/ ROTATE 20/20/20 K. DRAG 0 K. CIRCULATE CLOSED LOOP SYSTEM WITH 8.5# WATER. DRILL DOWN TO 210' WITH 6" DRILL COLLARS.
	21:30 - 0:00	2.50	DRLSUR	06	A	P		CIRC 15 MINUTES AND, TRIP OUT TO CHANGE ASSEMBLY. PRE JOB SAFETY MEETING, LAY DOWN 6" DRILL COLLARS, BREAK 12 1/4" BIT. MAKE UP Q506F 11" BIT (1 TH RUN) (SN 7031553) PICK UP 8" DIRECTIONAL ASSEMBLY. INSTALL EM TOOL. TRIP IN HOLE.
6/3/2012	0:00 - 22:00	22.00	DRLSUR	02	C	P		DRILL 11" SURFACE HOLE 210' - 2460' T.D. (2250' AT 102 FT HR) WEIGHT ON BIT 15-25 K. STROKES PER MINUTE 120 GALLONS PER MINUTE 491. PRESSURE ON/OFF(BOTTOM) 1090/880. ROTARY RPM 55, MOTOR RPM 83, TOTAL RPM 138. UP/DOWN/ ROTATE 96/76/73 K. DRAG 20 K. SLIDING 15'-20 PER 90'OF ROTATION GETTING 1.8 DEGREE BUILD RATES LANDED 15" HIGH 2.1' LEFT OF LINE SLIDING 349' 14% LAST SURVEY 19.7 DEG 275.52 AZI CIRCULATE CLOSED LOOP SYSTEM WITH 8.6# WATER. RUNNING VOLUME OVER BOTH SHAKERS 200 API SCREENS ON SHAKERS NO HOLE ISSUES.
	22:00 - 0:00	2.00	DRLSUR	05	C	P		CIRCULATE AND CONDITION MUD PRIOR TO LDDS
6/4/2012	0:00 - 4:00	4.00	DRLSUR	06	A	P		TOOH LAYING DOWN DRILL STRING BREAK OUT MWD TOOLS, DIRECTIONAL MONELS, MUD MOTOR AND BIT.
	4:00 - 8:30	4.50	DRLSUR	12	C	P		RIG UP AND RUN NO PROBLEMS GETTING PIPE TO BOTTOM, RUN 200' OF 1" PIPE PUMP 500 BBLS PIT WATER DOWN HOLE

Operation Summary Report

Well: BONANZA 1023-5J3AS ORANGE			Spud Date: 6/2/2012
Project: UTAH-UINTAH	Site: BONANZA 1023-5I PAD		Rig Name No: PROPETRO 12/12, XTC 12/12
Event: DRILLING	Start Date: 5/16/2012		End Date: 7/1/2012
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Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	8:30 - 11:00	2.50	DRLSUR	12	E	P		PRESSURE TEST LINES TO 2000 PSI. PUMP 135 BBLS OF WATER AHEAD. CATCH PSI. PUMP 20 BBLS OF 8.3# GEL WATER AHEAD. MIX AND PUMP (300 SX) 61.4 BBLS OF 15.8# 1.15 YD 5 GAL/SK PREMIUM CEMENT W/ 2% CALC. DROP PLUG ON FLY. DISPLACE W/ 143 BBLS OF H20. NO CIRC THROUGH OUT. FINAL LIFT OF 210 PSI AT 4 BBL/MIN. BUMP PLUG WITH 500 PSI FOR 5 MIN. FLOAT HELD. MIX AND PUMP (150 SX) 30.7 BBLS OF SAME TAIL CEMENT W/ 4% CALC. DOWN BACKSIDE, NO CEMENT TO SURFACE. SHUT DOWN AND CLEAN TRUCK. WILL TOP OUT WITH EXTREME 12 ON LOCATION WITH PRO PETRO CEMENTERS RELEASE RIG @ 11:00 6-4-12
6/26/2012	11:30 - 12:30	1.00	MIRU	01	C	P		PULL CAT WALK FORWARD. INSTALL SKID RAILS. PREPARE RIG FOR SKID AND SKID RIG FORWARD 10'. RESET CATWALK . ADD ELECTRICAL EXTENSION TO RIG. CENTER AND LEVEL RIG OVER HOLE.
	12:30 - 14:00	1.50	MIRU	14	A	P		NIPPLE UP BOPE. TIGHTEN CAMERON QUICK FLANGE. ADD L EXTENSION TO FLOW LINES. MOVE FLOW SENSOR FROM STRAIGHT FLOW LINE EXTENSION AND RIG UP ON L EXTENSION.
	14:00 - 21:00	7.00	MIRU	15	A	P		HOLD SAFETY MEETING. TEST TOP DRIVE VALVE, I-BOP VALVE, FLOOR VALVE, DART VALVE, PIPE AND BLIND RAMS, INSIDE AND OUTSIDE KILL LINE VALVES INSIDE OUTSIDE CHOKE LINE VALVE, HCR VALVE, CHOKE LINE, CHOKE MANIFOLD VALVES AND CHOKES TO 5000 PSI FOR 10 MINUTES AND 250 PSI FOR 5 MINUTES. TEST ANNULLAR TO 2500 PSI FOR 10 MIN AND 250 PSI FOR 5 MINUTES. B.O.P. BEGAN LEAKING DURRING TEST PICKED UP B.O.P. REPLACED GASKET'S, GASKET'S THAT CAMERON LEFT AT THE RIG FOR REPLACEMENT WERE THE WRONG SIZE. WAITED ON CAMERON HAND TO DRIVE FROM VERNAL TO THE RIG WITH THE CORRECT GASKETS TESTING CASING TO 1500 PSI FOR 30 MINUTES.
	21:00 - 23:30	2.50	MIRU	21	D	Z		***DELAY: (CAMERON) 21:00-23:30 CAMERON LEFT THE WRONG GASKETS FOR THE WELL HEAD ADDAPTOR, SERVICE HAND SAID MUST HAVE BEEN A NEW GUY WHO BROUGHT THEM OUT!! WAITED FOR THE RIGHT GASKET'S FROM VERNAL CAMERON.
	23:30 - 0:00	0.50	MIRU	15	A	P		TESTING CASING TO 1500 PSI FOR 30 MINUTES.
6/27/2012	0:00 - 0:30	0.50	MIRU	06	A	P		INSTALL WEAR BUSHING WITH EVEN WEAR

US ROCKIES REGION

Operation Summary Report

Well: BONANZA 1023-5J3AS ORANGE		Spud Date: 6/2/2012
Project: UTAH-UINTAH	Site: BONANZA 1023-5I PAD	Rig Name No: PROPETRO 12/12, XTC 12/12
Event: DRILLING	Start Date: 5/16/2012	End Date: 7/1/2012
Active Datum: RKB @5,312.00usft (above Mean Sea Level)	UWI: NE/SE/0/10/S/23/E/5/0/0/26/PM/S/1620/E/0/1056/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	0:30 - 1:00	0.50	MIRU	08	A	Z		***FAILURE: RIG EQUIPMENT - (PIPE SPINNER'S) 00:30-01:00 REPAIR PIPE SPINNER'S
	1:00 - 4:00	3.00	MIRU	06	A	P		P/U WEATHERFORD 1.83 BH .16 RPG MOTOR (SN 625-3672). MADE UP SMITH MDI616 BIT W/ 6-15'S (SN JE9119). SCRIBED MOTOR. P/U DOUBLE PIN, NON MAG TOOL CARRIER AND EM SUB. INSTALL EM TOOL. P/U MONEL AND CROSSOVER TO HWDP. TRIP IN HOLE WITH HEAVY WEIGHT DRILL PIPE @ 950'
	4:00 - 5:30	1.50	MIRU	09	A	P		SLIP AND CUT 91' OF DRILLING LINE
	5:30 - 6:00	0.50	MIRU	07	A	P		SERVICED TOP DRIVE, INSPECT BRAKES, EMERGANCY STOP 1 SECOND REACTION TIME.
	6:00 - 6:30	0.50	MIRU	07	A	P		RIG SERVICE. SERVICE TOP DRIVE. CHECK GENERATORS. SERVICE CROWN. CHECK BRAKE ADJUSTMENT AND TEST EMERGENCY STOP.
	6:30 - 7:30	1.00	MIRU	02	D	P		INSTALL NEW ROTATING HEAD RUBBER. TRIP IN HOLE WITH DRILL PIPE. TAG CEMENT 2400'.
	7:30 - 8:00	0.50	DRLPRO	02	F	P		REVEW DIRECTIONAL PLANS AND PLATS AND VERIFY LAT/LONGS AND WELL ORDER. VERIFY DIRECTIONAL DRILLERS PLAN IS THE MOST RECENT AND APPROVED VERSION. REFERENCE WELLBORE DIAGRAMS FOR EXACT CASING DESIGN AND GENERAL OVERVEW OF WELLBORE, PRIOR TO SPUD. SPUD @ 06/27/2012 09:00 DRILL CEMENT AND FLOAT EQUIPMENT 2350'- 2446'. SURFACE CASING SHOE @ 2446'. DRILLED WITH 15K ON BIT AND 45 RPM. @ 450 GPM.

US ROCKIES REGION

Operation Summary Report

Well: BONANZA 1023-5J3AS ORANGE		Spud Date: 6/2/2012	
Project: UTAH-UINTAH	Site: BONANZA 1023-5I PAD		Rig Name No: PROPETRO 12/12, XTC 12/12
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Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	8:00 - 18:00	10.00	DRLPRC	02	D	P		DRILL SLIDE 2471'-3620' (1149', 115'./HR) WEIGHT ON BIT 18-22K. AVERAGE WEIGHT ON BIT 22K. ROTARY RPM 65. MUD MOTOR RPM 82. STROKES PER MINUTE 115 GALLONS PER MINUTE 517. ON/OFF PSI 1930/1429. DIFFERENTIAL 501. TORQUE HIGH/LOW 8743/5761. OFF BOTTOM TORQUE 365 STRING WEIGHT UP/DOWN/ROT 101/80/90. DRAG 11K. DRILL OUT OF SHOE @ 19.95 DEGREES HOLDING ANGLE @ 10' SOUTH AND 10' WEST OF LINE @ 3620'. SLIDE 226' AT 80'/HR. SLIDE 19% ROTATE 81%. RUNNING 2 CENTRIFUGES AND DE WATERING.(WT 8.4 VIS 26.) USED 62 BBLS DRILL WATER FOR HOLE VOLUME. LOSS 78 BBLS DRILL WATER INTO FORMATION. (LOSING 7.8 BBLS HR) PUMP 50 VIS GEL AND 5% SAWDUST SWEEPS TO HELP CONTROL LOSSES. PUMP 15 BBLS SWEEP EVERY 200'. (USE 80 BBLS LIGHT DRILL WATER WITH 32 VIS AS BASE FOR BUILDING SWEEPS.) (ADD 30 BBLS OF FRESH WATER FOR MAKE UP) NO FLARE. (BOP DRILL 45 SEC)
	18:00 - 0:00	6.00	DRLPRC	02	D	P		DRILL SLIDE 3620'-4213' (593', 98'./HR) WEIGHT ON BIT 18-22K. AVERAGE WEIGHT ON BIT 22K. ROTARY RPM 65. MUD MOTOR RPM 82. STROKES PER MINUTE 115 GALLONS PER MINUTE 517. ON/OFF PSI 1930/1429. DIFFERENTIAL 501. TORQUE HIGH/LOW 8743/5761. OFF BOTTOM TORQUE 3651 STRING WEIGHT UP/DOWN/ROT 101/80/90. DRAG 11K. HOLDING ANGLE @ 18' SOUTH AND 5' WEST OF LINE @ 4213'. SLIDE 86' AT 80'/HR. SLIDE 19% ROTATE 81%. RUNNING 2 CENTRIFUGES AND DE WATERING.(WT 8.4 VIS 26.) USED 62 BBLS DRILL WATER FOR HOLE VOLUME. LOSS 78 BBLS DRILL WATER INTO FORMATION. (LOSING 7.8 BBLS HR) PUMP 50 VIS GEL AND 5% SAWDUST SWEEPS TO HELP CONTROL LOSSES. PUMP 15 BBLS SWEEP EVERY 200'. (USE 80 BBLS LIGHT DRILL WATER WITH 32 VIS AS BASE FOR BUILDING SWEEPS.) (ADD 30 BBLS OF FRESH WATER FOR MAKE UP) NO FLARE.

Operation Summary Report

Well: BONANZA 1023-5J3AS ORANGE		Spud Date: 6/2/2012
Project: UTAH-UINTAH	Site: BONANZA 1023-5I PAD	Rig Name No: PROPETRO 12/12, XTC 12/12
Event: DRILLING	Start Date: 5/16/2012	End Date: 7/1/2012
Active Datum: RKB @5,312.00usft (above Mean Sea Level)	UWI: NE/SE/0/10/S/23/E/5/0/0/26/PM/S/1620/E/0/1056/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
6/28/2012	0:00 - 5:30	5.50	DRLPRC	02	D	P		DRILL SLIDE 4213'-4882' (669', 122'./HR) WEIGHT ON BIT 18-22K. AVERAGE WEIGHT ON BIT 22K. ROTARY RPM 65. MUD MOTOR RPM 82. STROKES PER MINUTE 115 GALLONS PER MINUTE 517. ON/OFF PSI 1930/1429. DIFFERENTIAL 501. TORQUE HIGH/LOW 8743/5761. OFF BOTTOM TORQUE 3651 STRING WEIGHT UP/DOWN/ROT 101/80/90. DRAG 11K. DROPING ANGLE @ 3' NORTH AND 13' WEST OF LINE @ 4882'. SLIDE 44' AT 80'/HR. SLIDE 19% ROTATE 81%. RUNNING 2 CENTRIFUGES AND DE WATERING.(WT 8.4 VIS 26.) USED 36 BBLS DRILL WATER FOR HOLE VOLUME. LOSS 60 BBLS DRILL WATER INTO FORMATION. (LOSING 10 BBLS HR) PUMP 50 VIS GEL AND 5% SAWDUST SWEEPS TO HELP CONTROL LOSSES. PUMP 15 BBLS SWEEP EVERY 200'. (USE 80 BBLS LIGHT DRILL WATER WITH 32 VIS AS BASE FOR BUILDING SWEEPS.) (ADD 30 BBLS OF FRESH WATER FOR MAKE UP) NO FLARE.
	5:30 - 6:00	0.50	DRLPRC	07	A	P		SERVICED TOP DRIVE, INSPECT BRAKES, EMERGANCY STOP 1 SECOND REACTION TIME.
	6:00 - 17:30	11.50	DRLPRC	02	D	P		DRILL SLIDE 4882'-6290' (1408', 122'./HR) WEIGHT ON BIT 18-22K. AVERAGE WEIGHT ON BIT 22K. ROTARY RPM 65. MUD MOTOR RPM 82. STROKES PER MINUTE 115 GALLONS PER MINUTE 517. ON/OFF PSI 1953/1694. DIFFERENTIAL 259. TORQUE HIGH/LOW 10974/7942. OFF BOTTOM TORQUE 5692 STRING WEIGHT UP/DOWN/ROT 145/100/120. DRAG 25K. VERTICAL @ 4' NORTH AND 13' WEST OF LINE @ 6290'. SLIDE 44' AT 80'/HR. SLIDE 19% ROTATE 81%. RUNNING 2 CENTRIFUGES AND DE WATERING.(WT 8.4 VIS 26.) USED 76 BBLS DRILL WATER FOR HOLE VOLUME. LOSS 110 BBLS DRILL WATER INTO FORMATION. (LOSING 10 BBLS HR) PUMP 50 VIS GEL AND 5% SAWDUST SWEEPS TO HELP CONTROL LOSSES. PUMP 15 BBLS SWEEP EVERY 200'. (USE 80 BBLS LIGHT DRILL WATER WITH 32 VIS AS BASE FOR BUILDING SWEEPS.) (ADD 30 BBLS OF FRESH WATER FOR MAKE UP) NO FLARE.
	17:30 - 18:00	0.50	DRLPRC	07	A	P		RIG SERVICE. SERVICE TOP DRIVE. CHECK GENERATORS. SERVICE CROWN. CHECK BRAKE ADJUSTMENT AND TEST EMERGENCY STOP.

Operation Summary Report

Well: BONANZA 1023-5J3AS ORANGE		Spud Date: 6/2/2012
Project: UTAH-UINTAH	Site: BONANZA 1023-5I PAD	Rig Name No: PROPETRO 12/12, XTC 12/12
Event: DRILLING	Start Date: 5/16/2012	End Date: 7/1/2012
Active Datum: RKB @5,312.00usft (above Mean Sea Level)	UWI: NE/SE/0/10/S/23/E/5/0/0/26/PM/S/1620/E/0/1056/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	18:00 - 0:00	6.00	DRLPRC	02	D	P		DRILL SLIDE 6290'-6862' (572', 95'./HR) WEIGHT ON BIT 18-22K. AVERAGE WEIGHT ON BIT 22K. ROTARY RPM 65. MUD MOTOR RPM 82. STROKES PER MINUTE 115 GALLONS PER MINUTE 517. ON/OFF PSI 1953/1694. DIFFERENTIAL 259. TORQUE HIGH/LOW 10974/7942. OFF BOTTOM TORQUE 5692 STRING WEIGHT UP/DOWN/ROT 145/100/120. DRAG 25K. VERTICAL @ 18' NORTH AND 13' WEST OF LINE @ 6862'. SLIDE 32' AT 80'/HR. SLIDE 10% ROTATE 90%. RUNNING 2 CENTRIFUGES AND DE WATERING.(WT 8.4 VIS 26.) USED 31 BBLS DRILL WATER FOR HOLE VOLUME. LOSS 60 BBLS DRILL WATER INTO FORMATION. (LOSING 10 BBLS HR) PUMP 50 VIS GEL AND 5% SAWDUST SWEEPS TO HELP CONTROL LOSSES. PUMP 15 BBLS SWEEP EVERY 200'. (USE 80 BBLS LIGHT DRILL WATER WITH 32 VIS AS BASE FOR BUILDING SWEEPS.) (ADD 30 BBLS OF FRESH WATER FOR MAKE UP) NO FLARE.
6/29/2012	0:00 - 5:30	5.50	DRLPRC	02	D	P		DRILL SLIDE 6862'-7464' (602', 109'./HR) WEIGHT ON BIT 18-22K. AVERAGE WEIGHT ON BIT 22K. ROTARY RPM 65. MUD MOTOR RPM 82. STROKES PER MINUTE 115 GALLONS PER MINUTE 517. ON/OFF PSI 1781/1393. DIFFERENTIAL 388. TORQUE HIGH/LOW 12204/9516. OFF BOTTOM TORQUE 8914 STRING WEIGHT UP/DOWN/ROT 180/120/145. DRAG 35K. VERTICAL @ 0' NORTH AND 18' WEST OF LINE @ 7464'. SLIDE 34' AT 80'/HR. SLIDE 10% ROTATE 90%. RUNNING 2 CENTRIFUGES AND DE WATERING.(WT 8.4 VIS 26.) USED 33 BBLS DRILL WATER FOR HOLE VOLUME. LOSS 60 BBLS DRILL WATER INTO FORMATION. (LOSING 10 BBLS HR) PUMP 50 VIS GEL AND 5% SAWDUST SWEEPS TO HELP CONTROL LOSSES. PUMP 15 BBLS SWEEP EVERY 200'. (USE 80 BBLS LIGHT DRILL WATER WITH 32 VIS AS BASE FOR BUILDING SWEEPS.) (ADD 30 BBLS OF FRESH WATER FOR MAKE UP) NO FLARE.
	5:30 - 6:00	0.50	DRLPRC	07	A	P		SERVICED TOP DRIVE, INSPECT BRAKES, EMERGANCY STOP 1 SECOND REACTION TIME.

US ROCKIES REGION

Operation Summary Report

Well: BONANZA 1023-5J3AS ORANGE		Spud Date: 6/2/2012	
Project: UTAH-UINTAH	Site: BONANZA 1023-5I PAD		Rig Name No: PROPETRO 12/12, XTC 12/12
Event: DRILLING	Start Date: 5/16/2012		End Date: 7/1/2012
Active Datum: RKB @5,312.00usft (above Mean Sea Level)	UWI: NE/SE/0/10/S/23/E/5/0/0/26/PM/S/1620/E/0/1056/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	6:00 - 17:30	11.50	DRLPRC	02	D	P		DRILL SLIDE 7464'-8419' (955', 83'./HR) WEIGHT ON BIT 18-22K. AVERAGE WEIGHT ON BIT 22K. ROTARY RPM 65. MUD MOTOR RPM 82. STROKES PER MINUTE 115 GALLONS PER MINUTE 517. ON/OFF PSI 2204/1988. DIFFERENTIAL 216. TORQUE HIGH/LOW 13019/11152. OFF BOTTOM TORQUE 9969 STRING WEIGHT UP/DOWN/ROT 180/120/145. DRAG 35K. VERTICAL @ 0' NORTH AND 18' WEST OF LINE @ 7464'. SLIDE 16' AT 80'/HR. SLIDE 10% ROTATE 90%. RUNNING 2 CENTRIFUGES AND DE WATERING.(WT 8.4 VIS 26.) USED 33 BBLS DRILL WATER FOR HOLE VOLUME. LOSS 60 BBLS DRILL WATER INTO FORMATION. (LOSING 10 BBLS HR) PUMP 50 VIS GEL AND 5% SAWDUST SWEEPS TO HELP CONTROL LOSSES. PUMP 15 BBLS SWEEP EVERY 200'. (USE 80 BBLS LIGHT DRILL WATER WITH 32 VIS AS BASE FOR BUILDING SWEEPS.) (ADD 30 BBLS OF FRESH WATER FOR MAKE UP) NO FLARE. LIGHT MUD UP @ 7500' WENT CONVENTIONAL ON BOTH CENTRAFUGES, MIXED GELL FOR 32 VIS.
	17:30 - 18:00	0.50	DRLPRC	07	A	P		RIG SERVICE. SERVICE TOP DRIVE. CHECK GENERATORS. SERVICE CROWN. CHECK BRAKE ADJUSTMENT AND TEST EMERGENCY STOP.

US ROCKIES REGION

Operation Summary Report

Well: BONANZA 1023-5J3AS ORANGE		Spud Date: 6/2/2012
Project: UTAH-UINTAH	Site: BONANZA 1023-5I PAD	Rig Name No: PROPETRO 12/12, XTC 12/12
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Active Datum: RKB @5,312.00usft (above Mean Sea Level)	UWI: NE/SE/0/10/S/23/E/5/0/0/26/PM/S/1620/E/0/1056/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	18:00 - 21:30	3.50	DRLPRC	02	D	P		DRILL SLIDE 8419'-8604' (185', 52'./HR) TD@ 06/29/2012 21:30 WEIGHT ON BIT 18-22K. AVERAGE WEIGHT ON BIT 22K. ROTARY RPM 65. MUD MOTOR RPM 82. STROKES PER MINUTE 115 GALLONS PER MINUTE 517. ON/OFF PSI 2204/1988. DIFFERENTIAL 216. TORQUE HIGH/LOW 13019/11152. OFF BOTTOM TORQUE 9969 STRING WEIGHT UP/DOWN/ROT 180/120/145. DRAG 35K. VERTICAL @ 12' SOUTH AND 18' WEST OF LINE @ 8604'. SLIDE 0' AT 0'/HR. SLIDE 0% ROTATE 100%. RUNNING 2 CENTRIFUGES AND DE WATERING.(WT 8.4 VIS 26.) USED 10 BBLS DRILL WATER FOR HOLE VOLUME. LOSS 30 BBLS DRILL WATER INTO FORMATION. (LOSING 10 BBLS HR) PUMP 50 VIS GEL AND 5% SAWDUST SWEEPS TO HELP CONTROL LOSSES. PUMP 15 BBLS SWEEP EVERY 200'. (USE 80 BBLS LIGHT DRILL WATER WITH 32 VIS AS BASE FOR BUILDING SWEEPS.) (ADD 30 BBLS OF FRESH WATER FOR MAKE UP) NO FLARE. FULL MUD UP @ 8419', TRANSFER HEAVY MUD INTO MUD TANKS, DISPLACING LIGHT MUD INTO 400 UPRIGHTS, ENDED UP WITH 10.6# AND 38 VIS MUD.
	21:30 - 0:00	2.50	DRLPRC	05	A	P		CIRCULATE AND CONDITION MUD. CIRCULATE BOTTOMS UP. RETURNS CLEAN COMING OVER SHAKERS. MUD WT IN 11.3 VIS 42 MUD WT OUT 11.3 VIS 40. WORK PIPE UP AND DOWN EVERY 5 MINUTES WHILE CIRCULATING. NO LOSSES. PUMPED LCM SWEEP AROUND TO CLEAN HOLE. BUILD 40 BBL 13# DRY JOB AND HOLD. NO FLAIR
6/30/2012	0:00 - 0:30	0.50	EVALPR	05	A	P		CIRCULATE AND CONDITION MUD. CIRCULATE BOTTOMS UP. RETURNS CLEAN COMING OVER SHAKERS. MUD WT IN 11.3 VIS 42 MUD WT OUT 11.3 VIS 40. WORK PIPE UP AND DOWN EVERY 5 MINUTES WHILE CIRCULATING. NO LOSSES. PUMPED LCM SWEEP AROUND TO CLEAN HOLE. BUILD 40 BBL 13# DRY JOB AND HOLD. NO FLAIR
	0:30 - 7:30	7.00	EVALPR	06	E	P		WIPER TRIP OUT OF HOLE. PUMP AND ROTATE OUT OF HOLE TO 7000'. PUMP AND ROTATE OFF AND ON FROM 8500-7600'. (80 K OVER PULL OFF BOTTOM). PUMP DRY JOB AND TRIP OUT OF HOLE. TRIP OUT OF HOLE TO SHOE. LOSS 10 BBLS ON TRIP OUT TO SHOE. NO FLOW ON FLOW CHECKS.

US ROCKIES REGION

Operation Summary Report

Well: BONANZA 1023-5J3AS ORANGE		Spud Date: 6/2/2012	
Project: UTAH-UINTAH	Site: BONANZA 1023-5I PAD		Rig Name No: PROPETRO 12/12, XTC 12/12
Event: DRILLING	Start Date: 5/16/2012		End Date: 7/1/2012
Active Datum: RKB @5,312.00usft (above Mean Sea Level)	UWI: NE/SE/0/10/S/23/E/5/0/0/26/PM/S/1620/E/0/1056/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:30 - 11:30	4.00	EVALPR	06	E	P		WIPER TRIP BACK IN HOLE. WASH THROUGH BRIDGE @ 4197' AND 5812'. HOLE SLICK EXCEPT FOR BRIDGES. TRIP TO BOTTOM. LOSS 10 BBL OF MUD ON TRIP IN. 10' FILL ON BOTTOM .
	11:30 - 13:30	2.00	EVALPR	05	A	P		CIRC AND CONDTION HOLE. CIRC BOTTOMS UP. MUD IN 11.6 VIS 43. MUD OUT 11.5 VIS 40. NO LOSSES. PUMP 2- 15% LCM SWEEPS AROUND TO HELP CLEAN HOLE. MIX 40 BBL 13# DRY JOB AND HOLD. NO FLOW ON FLOW CHECK. 15' FLARE ON BOTTOMS UP FOR 15 MIN. 4196 SCF
	14:00 - 21:00	7.00	EVALPR	06	B	P		PUMP AND ROT OUT OF HOLE TO 7300'. 60K OVER PULL PULLING OFF BOTTOM. HOLE RELATIVELY SLICK. PIPE PULLING GOOD. NO FLOW ON FLOW CHECK. PUMP DRY JOB. PULL OUT OF HOLE FOR CASING RUN. HOLE TAKING PROPER FLUID. NO FLOW ON FLOW CHECKS. PULL ROTATING HEAD RUBBER AT HEAVY WEIGHT DRILL PIPE. LAY DOWN DIRECTIONAL TOOLS. BREAK BIT AND LAYDOWN MUD MOTOR. PULL WEAR BUSHING.
	21:00 - 0:00	3.00	EVALPR	12	C	P		HOLD SAFETY MEETING RIG UP KIMZY CASING. (INSPECT FLOAT EQUIPMENT) MAKE UP 4.5" K-55 LTC WEATHERFORD FLOAT SHOE ON SHOE JOINT WITH THREAD LOCK. MAKE UP 4.5" K-55 FLOAT COLLAR W/ THREAD LOCK ON TOP OF SHOE JOINT. RUN CENTRALIZERS ON FIRST 3 JOINTS AND EVERY THIRD JOINT FOR TOTAL OF 15 CENTRALIZERS. RUN A TOTAL OF 50 JOINTS OF 4.5" 11.6# I-80 LTC CASING.

Operation Summary Report

Well: BONANZA 1023-5J3AS ORANGE		Spud Date: 6/2/2012	
Project: UTAH-UINTAH	Site: BONANZA 1023-5I PAD		Rig Name No: PROPETRO 12/12, XTC 12/12
Event: DRILLING	Start Date: 5/16/2012		End Date: 7/1/2012
Active Datum: RKB @5,312.00usft (above Mean Sea Level)	UWI: NE/SE/0/10/S/23/E/5/0/0/26/PM/S/1620/E/0/1056/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
7/1/2012	0:00 - 6:00	6.00	CSGPRO	12	C	P		(INSPECT FLOAT EQUIPMENT) MAKE UP 4.5" K-55 LTC WEATHERFORD FLOAT SHOE ON SHOE JOINT WITH THREAD LOCK. MAKE UP 4.5" K-55 FLOAT COLLAR W/ THREAD LOCK ON TOP OF SHOE JOINT. RUN CENTRALIZERS ON FIRST 3 JOINTS AND EVERY THIRD JOINT FOR TOTAL OF 15 CENTRALIZERS. BREAK CIRCULATION @ 2400'. NO PROBLEMS WITH FLOAT SHOE OR COLLAR. RUN A TOTAL OF 80 JOINTS OF 4.5" 11.6# I-80 LTC CASING (3586.53'). MAKE UP DQX CROSS OVER JOINT AND RIG UP TORQUE TURN. PERFORM DUMP TEST. RUN A TOTAL 118 JOINTS OF 4.5" 11.6# I-80 DQX CSG WITH TORQUE TURN (5006.45'). (TSI HAND WITNESSED CASING JOB, BILLY BRUBAKER). FILLED CASING AND CIRCULATED AT 2400' AND 5500'. GOOD CIRCULAT ON WITH NO LOSSES WAS ESTABLISHED. WASH DOWN LAST JOINT AND LANDING JOINT. 10' FILL ON BOTTOM. LANDED CASING ON CAMERON SLOTTED MANDREL WITH LANDING JOINT. NO BAD JOINTS ON CASING RUN. TOTAL OF 80 JTS OF 4.5" 11.6# I-80 LTC (3586.53') TOTAL 118 JTS OF 4.5" 11.6# I-80 DQX CSG (5006.45') LAND FLOAT SHOE @ 8592.95' KB LAND TOP OF FLOAT COLLAR @ 8545.78' KB. LAND TOP OF MESA MARKER JT @ 6399.50 KB. LAND TOP DQX TO LTC CROSS OVER JOINT @ 5006.45' KB.
	6:00 - 7:30	1.50	CSGPRO	05	D	P		CIRCULATE DOWN CASING WITH RIG. GOOD CIRCULATION WITH NO LOSSES @ 363 GALLONS PER MINUTE. NO FLARE ON BOTTOMS UP. MUD WT 11.5 VIS 42. RIG DOWN KIMZEY CASING.

US ROCKIES REGION

Operation Summary Report

Well: BONANZA 1023-5J3AS ORANGE		Spud Date: 6/2/2012	
Project: UTAH-UINTAH	Site: BONANZA 1023-5I PAD		Rig Name No: PROPETRO 12/12, XTC 12/12
Event: DRILLING	Start Date: 5/16/2012		End Date: 7/1/2012
Active Datum: RKB @5,312.00usft (above Mean Sea Level)	UWI: NE/SE/0/10/S/23/E/5/0/0/26/PM/S/1620/E/0/1056/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:30 - 10:00	2.50	CSGPRO	12	E	P		RIG UP CEMENT HEAD WITH WEATHERFORD TOP PLUG INSTALLED. PRESSURE TEST LINES TO 5000 PSI. PUMP 25 BBLS OF FRESH WATER. PUMP 165 BBLS (410 SX) OF 12.0# 2.26 YIELD 12.48 GAL/SK OF LEAD CEMENT. PUMP 214 BBLS (920SX) OF 14.3# 1.31 YIELD 5.91 GAL/SK POZ 50/50 TAIL CEMENT. SHUT DOWN AND FLUSH LINES. DROP TOP PLUG DISPLACE WITH 133 BBLS OF FRESH WATER TREATED WITH CLAYFIX AND MAGNACIDE. FULL RETURNS THROUGH OUT JOB. NO CEMENT OR SPACER TO SURFACE LIFT PSI OF 2340 @ 3 BBLS MINUTE. BUMP PLUG 2774 PSI. . PRESSURE HELD 5 MINUTES. FLOAT HELD. FLOW BACK 1.5 BBLS. ESTIMATED TOP OF CEMENT FOR LEAD 300'. ESTIMATED TOP OF CEMENT FOR TAIL 3700'. STORED 790 BBLS OF 11.5# MUD. RIG DOWN CEMENTERS. FLUSH STACK WITH FRESH WATER.
	10:00 - 15:30	5.50	RDMO	14	A	P		UNSCREW LANDING JT. RUN IN WITH PACK OFF. TURN IN LANDING DOGS. UNSCREW FROM PACK OFF, SET PACK OFF @ 11:30. LAYDOWN LANDING JT. UNDO FLOW LINE. NIPPLE DOWN BOPE. UNDO CHOKE LINE. PICK UP STACK. AND COVER WELL. CLEAN MUD TANKS TO 15:30 RELEASE RIG 07/01/2012 15:30.

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	BONANZA 1023-5J3AS ORANGE	**Wellbore No.**	OH
Well Name	BONANZA 1023-5J3AS	**Wellbore Name**	BONANZA 1023-5J3AS
Report No.	1	**Report Date**	9/5/2012
Project	UTAH-UINTAH	**Site**	BONANZA 1023-5I PAD
Rig Name/No.		**Event**	COMPLETION
Start Date	9/5/2012	**End Date**	9/17/2012
Spud Date	6/2/2012	**Active Datum**	RKB @5,312.00usft (above Mean Sea Level)
UWI	NE/SE/0/10/S/23/E/5/0/0/26/PM/S/1620/E/0/1056/0/0		

1.3 General

Contractor		**Job Method**		**Supervisor**	
Perforated Assembly		**Conveyed Method**			

1.4 Initial Conditions

Fluid Type		**Fluid Density**	
Surface Press		**Estimate Res Press**	
TVD Fluid Top		**Fluid Head**	
Hydrostatic Press		**Press Difference**	
Balance Cond	NEUTRAL		

1.5 Summary

Gross Interval	6,173.0 (usft)-8,473.0 (usft	**Start Date/Time**	9/5/2012 12:00AM
No. of Intervals	49	**End Date/Time**	9/5/2012 12:00AM
Total Shots	210	**Net Perforation Interval**	66.00 (usft)
Avg Shot Density	3.18 (shot/ft)	**Final Surface Pressure**	
		Final Press Date	

2 Intervals

2.1 Perforated Interval

Date	Formation/ Reservoir	CCL@ (usft)	CCL-TS (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
9/5/2012 12:00AM	WASATCH/			6,173.0	6,174.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-TS (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
9/5/2012 12:00AM	WASATCH/			6,211.0	6,212.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/5/2012 12:00AM	WASATCH/			6,245.0	6,246.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/5/2012 12:00AM	WASATCH/			6,266.0	6,268.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/5/2012 12:00AM	WASATCH/			6,355.0	6,357.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/5/2012 12:00AM	MESAVERDE/			7,006.0	7,007.0	4.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/5/2012 12:00AM	MESAVERDE/			7,095.0	7,097.0	4.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/5/2012 12:00AM	MESAVERDE/			7,220.0	7,223.0	4.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/5/2012 12:00AM	MESAVERDE/			7,252.0	7,253.0	4.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/5/2012 12:00AM	MESAVERDE/			7,261.0	7,262.0	4.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/5/2012 12:00AM	MESAVERDE/			7,299.0	7,301.0	4.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/5/2012 12:00AM	MESAVERDE/			7,356.0	7,358.0	4.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/5/2012 12:00AM	MESAVERDE/			7,415.0	7,416.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/5/2012 12:00AM	MESAVERDE/			7,431.0	7,432.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/5/2012 12:00AM	MESAVERDE/			7,459.0	7,461.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/5/2012 12:00AM	MESAVERDE/			7,477.0	7,478.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/5/2012 12:00AM	MESAVERDE/			7,511.0	7,513.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/5/2012 12:00AM	MESAVERDE/			7,537.0	7,538.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/5/2012 12:00AM	MESAVERDE/			7,592.0	7,593.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/5/2012 12:00AM	MESAVERDE/			7,609.0	7,610.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/5/2012 12:00AM	MESAVERDE/			7,634.0	7,635.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/5/2012 12:00AM	MESAVERDE/			7,654.0	7,655.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	

2.1 Perforated Interval (Continued)

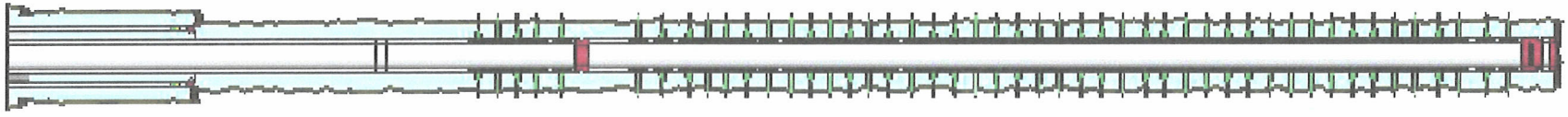
Date	Formation/ Reservoir	CCL@ (usft)	CCL-TS (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
9/5/2012 12:00AM	MESAVERDE/			7,669.0	7,670.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/5/2012 12:00AM	MESAVERDE/			7,679.0	7,680.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/5/2012 12:00AM	MESAVERDE/			7,706.0	7,707.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/5/2012 12:00AM	MESAVERDE/			7,729.0	7,730.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/5/2012 12:00AM	MESAVERDE/			7,762.0	7,763.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/5/2012 12:00AM	MESAVERDE/			7,774.0	7,775.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/5/2012 12:00AM	MESAVERDE/			7,794.0	7,795.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/5/2012 12:00AM	MESAVERDE/			7,834.0	7,836.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/5/2012 12:00AM	MESAVERDE/			7,893.0	7,894.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/5/2012 12:00AM	MESAVERDE/			7,905.0	7,907.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/5/2012 12:00AM	MESAVERDE/			7,938.0	7,939.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/5/2012 12:00AM	MESAVERDE/			7,952.0	7,953.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/5/2012 12:00AM	MESAVERDE/			7,974.0	7,975.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/5/2012 12:00AM	MESAVERDE/			7,985.0	7,986.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/5/2012 12:00AM	MESAVERDE/			8,003.0	8,004.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/5/2012 12:00AM	MESAVERDE/			8,018.0	8,019.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/5/2012 12:00AM	MESAVERDE/			8,036.0	8,038.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/5/2012 12:00AM	MESAVERDE/			8,068.0	8,069.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/5/2012 12:00AM	MESAVERDE/			8,085.0	8,086.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/5/2012 12:00AM	MESAVERDE/			8,109.0	8,110.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/5/2012 12:00AM	MESAVERDE/			8,138.0	8,140.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-TS (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
9/5/2012 12:00AM	MESAVERDE/			8,166.0	8,167.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/5/2012 12:00AM	MESAVERDE/			8,187.0	8,189.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/5/2012 12:00AM	MESAVERDE/			8,248.0	8,249.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/5/2012 12:00AM	MESAVERDE/			8,285.0	8,286.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/5/2012 12:00AM	MESAVERDE/			8,416.0	8,418.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/5/2012 12:00AM	MESAVERDE/			8,470.0	8,473.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	

3 Plots

3.1 Wellbore Schematic



US ROCKIES REGION

Operation Summary Report

Well: BONANZA 1023-5J3AS ORANGE		Spud Date: 6/2/2012
Project: UTAH-UINTAH	Site: BONANZA 1023-5I PAD	Rig Name No: GWS 1/1
Event: COMPLETION	Start Date: 9/5/2012	End Date: 9/17/2012
Active Datum: RKB @5,312.00usft (above Mean Sea Level)	UWI: NE/SE/0/10/S/23/E/5/0/0/26/PM/S/1620/E/0/1056/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
6/2/2012	-							
6/3/2012	-							
9/5/2012	8:30 - 8:45	0.25	FRAC	48		P		HELD SEFETY MEETING: HIGH PRESSURE
	8:45 - 10:30	1.75	FRAC	33	C	P		FILL SURFACE CSG. MIRU B&C QUICK TEST. PSI TEST T/ 1000 PSI. HELD FOR 15 MIN LOST 9 PSI. PSI TEST T/ 3500 PSI. HELD FOR 15 MIN LOST 33 PSI. 1ST PSI TEST T/ 7000 PSI. HELD FOR 30 MIN LOST 83 PSI. NO COMMUNICATION OR MIGRATION WITH SURFACE CSG BLEED OFF PSI.SWIFW
9/7/2012	7:00 - 10:00	3.00	COMP	37		P		PERF STG 1)PU 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH PERF AS PER PERF DESIGN. POOH. SWIFW

US ROCKIES REGION

Operation Summary Report

Well: BONANZA 1023-5J3AS ORANGE		Spud Date: 6/2/2012	
Project: UTAH-UINTAH	Site: BONANZA 1023-5I PAD		Rig Name No: GWS 1/1
Event: COMPLETION	Start Date: 9/5/2012		End Date: 9/17/2012
Active Datum: RKB @5,312.00usft (above Mean Sea Level)	UWI: NE/SE/0/10/S/23/E/5/0/0/26/PM/S/1620/E/0/1056/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
9/11/2012	8:00 - 18:00	10.00	COMP	36	B	P		FRAC STG 1)WHP 1,350 PSI, BRK 5,098 PSI @ 4.6 BPM. ISIP 2,548 PSI, FG .74. CALC HOLES OPEN @ 42.4 BPM @ 3,898 PSI = 100% HOLES OPEN. (21/24 HOLES OPEN) ISIP 2,224 PSI, FG .70, NPI 0324 PSI. MP 4,200 PSI, MR 49.9 BPM, AP 4,077 PSI, AR 49.6 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR W L PERF STG 2)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 8219' P/U PERF AS PER PERF DESIGN. POOH. X-OVER FOR FRAC CREW FRAC STG 2)WHP 2,009 PSI, BRK 2,261 PSI @ 4.8 BPM. ISIP 2,030 PSI, FG .68. CALC HOLES OPEN @ 48.4 BPM @ 3,960 PSI = 100% HOLES OPEN. (24/24 HOLES OPEN) ISIP 2,242 PSI, FG .71, NPI 212 PSI. MP 3,982 PSI, MR 50.5 BPM, AP 3,817 PSI, AR 49.8 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR W L PERF STG 3)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 8,058' P/U PERF AS PER PERF DESIGN. POOH. X-OVER FOR FRAC CREW FRAC STG 3)WHP 2,006 PSI, BRK 2,567 PSI @ 4.9 BPM. ISIP 2,174 PSI, FG .70. CALC HOLES OPEN @ 49.9 BPM @ 4,171 PSI = 100% HOLES OPEN. (24/24 HOLES OPEN) ISIP 2,454 PSI, FG .74, NPI 280 PSI. MP 4,106 PSI, MR 49.7 BPM, AP 4,047 PSI, AR 49.6 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR W L SWIFN.

Operation Summary Report

Well: BONANZA 1023-5J3AS ORANGE		Spud Date: 6/2/2012
Project: UTAH-UINTAH	Site: BONANZA 1023-5I PAD	Rig Name No: GWS 1/1
Event: COMPLETION	Start Date: 9/5/2012	End Date: 9/17/2012
Active Datum: RKB @5,312.00usft (above Mean Sea Level)	UWI: NE/SE/0/10/S/23/E/5/0/0/26/PM/S/1620/E/0/1056/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
9/12/2012	7:00 - 18:00	11.00	COMP	36	B	P		PERF STG 4)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 7928' P/U PERF AS PER PERF DESIGN. POOH. X-OVER FOR FRAC CREW FRAC STG 4)WHP 60 PSI, BRK 3566 PSI @ 5.1 BPM. ISIP 1864 PSI, FG .67. CALC HOLES OPEN @ 54.5 BPM @ 4400 PSI = 96% HOLES OPEN. (23/24 HOLES OPEN) ISIP 1738 PSI, FG .65, NPI -126 PSI. MP 4738 PSI, MR 54.6 BPM, AP 4374 PSI, AR 54.5 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR W L PERF STG 5)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 7752' P/U PERF AS PER PERF DESIGN. POOH. X-OVER FOR FRAC CREW FRAC STG 5)WHP 3537 PSI, BRK 3537 PSI @ 5.0 BPM. ISIP 2404 PSI, FG .75. CALC HOLES OPEN @ 54.9 BPM @ 4975 PSI = 96% HOLES OPEN. (23/24 HOLES OPEN) ISIP 1388 PSI, FG .61, NPI -1016 PSI. MP 4117 PSI, MR 55.1 BPM, AP 3841 PSI, AR 55 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR W L PERF STG 6)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 7568' P/U PERF AS PER DESIGN. POOH, XO T/ FRAC. FRAC STG 6)WHP 502 PSI, BRK 2703 PSI @ 4.9 BPM. ISIP 1352 PSI, FG .61. CALC HOLES OPEN @ 55.1 BPM @ 3520 PSI = 100% HOLES OPEN. (24/24 HOLES OPEN) ISIP 1440 PSI, FG .63, NPI 880 PSI. MP 3652 PSI, MR 55.2 BPM, AP 3396 PSI, AR 55.1 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR W L PERF STG 7)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 7388' P/U PERF AS PER DESIGN. POOH, XO T/ FRAC.

US ROCKIES REGION

Operation Summary Report

Well: BONANZA 1023-5J3AS ORANGE		Spud Date: 6/2/2012
Project: UTAH-UINTAH	Site: BONANZA 1023-5I PAD	Rig Name No: GWS 1/1
Event: COMPLETION	Start Date: 9/5/2012	End Date: 9/17/2012
Active Datum: RKB @5,312.00usft (above Mean Sea Level)	UWI: NE/SE/0/10/S/23/E/5/0/0/26/PM/S/1620/E/0/1056/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
9/13/2012	7:00 - 18:00	11.00	COMP	36	B	P		FRAC STG 7)WHP 401 PSI, BRK 2752 PSI @ 4.9 BPM. ISIP 1542 PSI, FG .64. CALC HOLES OPEN @ 54.8 BPM @ 3714 PSI = 100% HOLES OPEN. (24/24 HOLES OPEN) ISIP 2642 PSI, FG .79, NPI 1100 PSI. MP 3832 PSI, MR 54.8 BPM, AP 3725 PSI, AR 54.7 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR W L PERF STG 8)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP 7242' P/U PERF AS PER DESIGN. FRAC STG 8)WHP 1112 PSI, BRK 2635 PSI @ 5.0 BPM. ISIP 1695 PSI, FG .67. CALC HOLES OPEN @ 54.2 BPM @ 5200 PSI = 75% HOLES OPEN. (18/24 HOLES OPEN) ISIP 1779 PSI, FG .68, NPI 84 PSI. MP 5593 PSI, MR 54.4 BPM, AP 5019 PSI, AR 54.3 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR W L PERF STG 9)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 6387' P/U PERF AS PER DESIGN. POOH, XO T/ FRAC. FRAC STG 9)WHP 0 PSI, BRK 1798 PSI @ 4.8 BPM. ISIP 1499 PSI, FG .67. CALC HOLES OPEN @ 54.6 BPM @ 4157 PSI = 100% HOLES OPEN. (21/21 HOLES OPEN) ISIP 1988 PSI, FG .75, NPI 489 PSI. MP 4430 PSI, MR 54.7 BPM, AP 4168 PSI, AR 54.6 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR W L PU 4 1/2 8K HAL CBP. RIH SET KILL PLUG @ 6123'. POOH, DONE FRACING THIS WELL. TOTAL SAND = 219,200 LBS TOTAL CLFL = 10,535 BBL
9/14/2012	7:00 - 7:15	0.25	DRLOUT	48		P		HSM, SLIPS, TRIPS & FALLS, PU TBG
	7:15 - 15:30	8.25	DRLOUT	31	I	P		REMOVE PLATFORMS, ND FRAC VALVES, HU WH'S, INSTAL FLOWLINES, SET CHEMICAL TANKS, MIRU, SPOT EQUIP, NU BOP ((C/O PIPE RAMS)), RU FLOOR & TBG EQUIP, SPOT TBG TRAILER, PU BHA, TALLY & PU TBG TO KILL PLUG, RU P/S, INSTAL WASH RUBBER, FILL TBG BREAK CIRC, P/T BOP TO 3,000 PSI, TEST GOOD, READY TO D/O PLUGS ON MONDAY, SWI, SDFWE.
9/17/2012	7:00 - 7:15	0.25	DRLOUT	48		P		HSM, SLIPS, TRIPS & FALLS, D/O PLUGS, LANDING TBG

US ROCKIES REGION

Operation Summary Report

Well: BONANZA 1023-5J3AS ORANGE		Spud Date: 6/2/2012	
Project: UTAH-UINTAH	Site: BONANZA 1023-5I PAD		Rig Name No: GWS 1/1
Event: COMPLETION	Start Date: 9/5/2012		End Date: 9/17/2012
Active Datum: RKB @5,312.00usft (above Mean Sea Level)	UWI: NE/SE/0/10/S/23/E/5/0/0/26/PM/S/1620/E/0/1056/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:15 - 16:00	8.75	DRLOUT	44	C	P		BREAK CIRC, SURFACE CSG VALVE OPEN & LOCKED, D/O PLUGS. C/O 10' SAND, TAG 1ST PLUG @ 6,123' DRL PLUG IN 12 MIN. 0 PSI INCREASE WELL WENT ON VACUMN RIH, CSG PRESS 0 PSI. ((NO FLOW W/O PUMP)) C/O 70' SAND, TAG 2ND PLUG @ 6,387' DRL PLUG IN 10 MIN. 400 PSI INCREASE RIH, CSG PRESS 100 PSI. C/O 20' SAND, TAG 3RD PLUG @ 7,242' DRL PLUG IN 12 MIN. 200 PSI INCREASE RIH, CSG PRESS 50 PSI. C/O 25' SAND, TAG 4TH PLUG @ 7,388' DRL PLUG IN 10 MIN. 0 PSI INCREASE RIH, CSG PRESS 50 PSI. C/O 30' SAND, TAG 5TH PLUG @ 7,568' DRL PLUG IN 12 MIN. 100 PSI INCREASE RIH, CSG PRESS 50 PSI. C/O 15' SAND, TAG 6TH PLUG @ 7,752' DRL PLUG IN 11 MIN. 200 PSI INCREASE RIH, CSG PRESS 300 PSI. C/O 20' SAND, TAG 7TH PLUG @ 7,928' DRL PLUG IN 14 MIN. 300 PSI INCREASE RIH, CSG PRESS 300 PSI. C/O 25' SAND, TAG 8TH PLUG @ 8,058' DRL PLUG IN 12 MIN. 500 PSI INCREASE RIH, CSG PRESS 350 PSI. C/O 25' SAND, TAG 9TH PLUG @ 8,219' DRL PLUG IN 10 MIN. 400 PSI INCREASE RIH, CSG PRESS 400 PSI. PBTD @ 8,546', BTM PERF @ 8,473', RIH TAGGED @ 8,480', C/O TO PBTD @ 8,546' 73' PAST BTM PERF W/ 269 JTS 2 3/8" L-80 TBG, LD 16 JTS, PU & STRIP IN TBG HANGER & LAND TBG W/ 253 JTS 2 3/8" L-80, EOT 8,035.17'. RD POWER SWIVEL, FLOOR & TBG EQUIP, ND BOPS, NU WH, DROP BALL TO SHEAR OFF BIT W/ 2,400 PSI, LET BIT FALL FOR 20 MIN. P/T FLOW LINE FROM WH TO HAL 9000 TO 3,000 PSI W/ RIG PUMP, NO VISIBLE LEAKS. TURN OVER TO DELSCO FLOW BACK CREW, RD & MOVE TO NEXT WELL ON PAD & RU, SDFN. KB= 15' 4 1/16" CAMERON HANGER = .83' TBG

US ROCKIES REGION

Operation Summary Report

Well: BONANZA 1023-5J3AS ORANGE		Spud Date: 6/2/2012	
Project: UTAH-UINTAH	Site: BONANZA 1023-5I PAD		Rig Name No: GWS 1/1
Event: COMPLETION	Start Date: 9/5/2012		End Date: 9/17/2012
Active Datum: RKB @5,312.00usft (above Mean Sea Level)	UWI: NE/SE/0/10/S/23/E/5/0/0/26/PM/S/1620/E/0/1056/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
								DELIVERED 286 JTS 253 JTS 2 3/8" L-80 = 8,017.14' TBG USED 253 JTS POBS= 2.20' TBG RETURNED 33 JTS EOT @ 8,035.17' TWTR= 10,535 BBLS TWR= 3,500 BBLS TWLTR= 7,035 BBLS
	16:00 - 16:00	0.00	DRLOUT	50				WELL TURNED TO SALES @ 1400 HR ON 9/17/2012 1000 MCFD, 1920 BWPD, FCP 1725#, FTP1250#, 20/64" CK.

Project: UTAH - UTM (feet), NAD27, Zone 12N
Site: UINTAH_BONANZA 1023-5I PAD
Well: BONANZA 1023-5J3AS
Wellbore: BONANZA 1023-5J3AS
Section:
SHL:
Design: BONANZA 1023-5J3AS (wp01)
Latitude: 39.975201
Longitude: -109.344417
GL: 5297.00
KB: 5297' GL + 15' RKB @ 5312.00ft

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
4193.00	4357.75	WASATCH
4793.00	4957.76	top of cylinder
6226.00	6390.78	MESAVERDE
8420.00	8584.81	SEGO

WELL DETAILS: BONANZA 1023-5J3AS

+N/-S	+E/-W	Northing	Ground Level: 5297.00 Easting	Latitude	Longitude	Slot
0.00	0.00	14521320.25	2104255.52	39.975201	-109.344417	

CASING DETAILS

TVD	MD	Name	Size
2355.06	2445.98	8-5/8	8-5/8

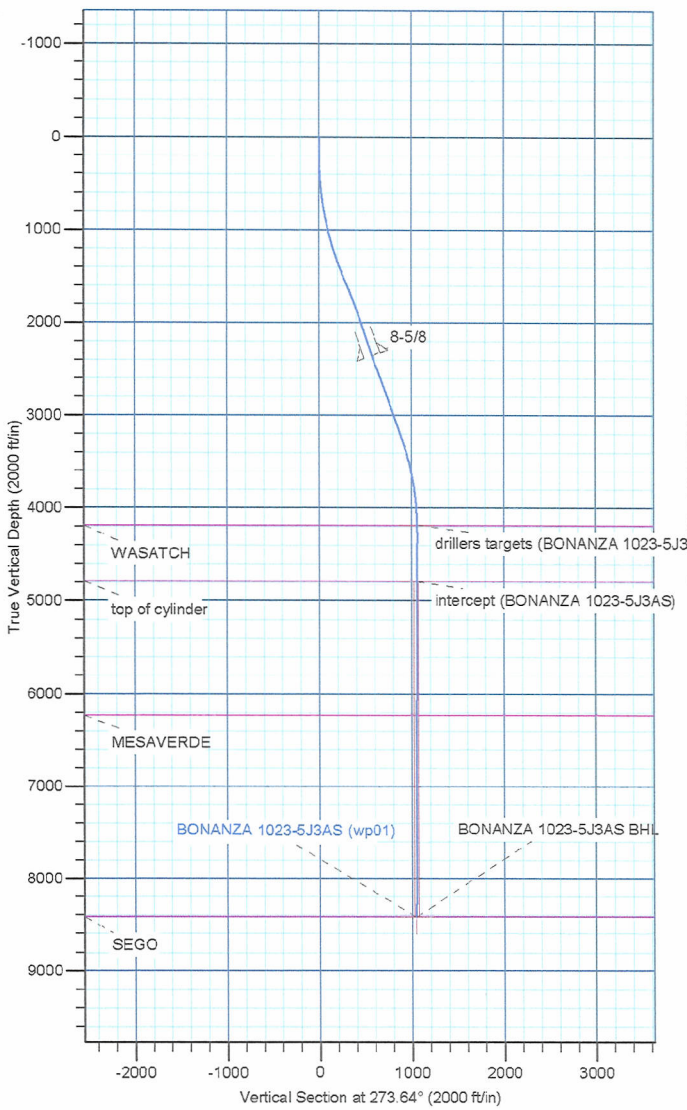
Azimuths to True North
Magnetic North: 10.88°
Magnetic Field
Strength: 52237.4snT
Dip Angle: 65.85°
Date: 6/5/2012
Model: IGRF2010

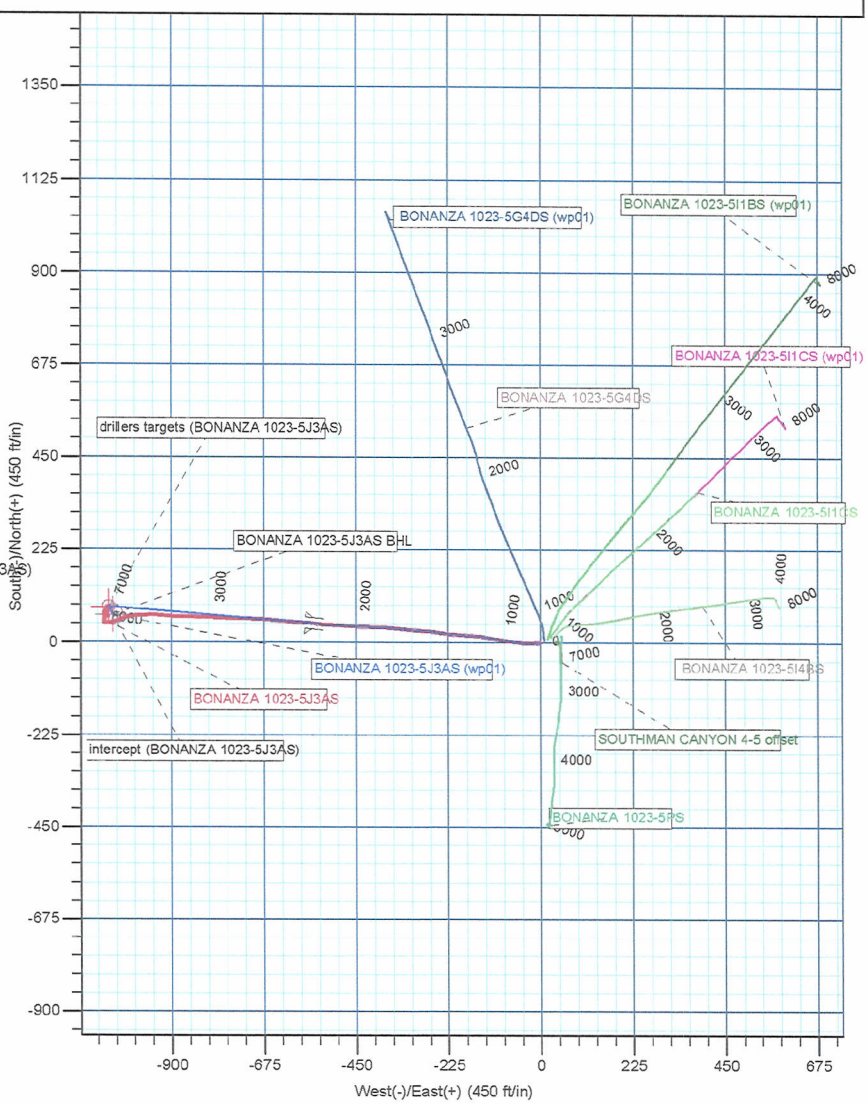
DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
drillers targets (BONANZA 1023-5J3AS)	4185.00	86.31	-1053.29	14521386.98	2103200.81	39.975438	-109.348176	Circle (Radius: 15.00)
intercept (BONANZA 1023-5J3AS)	4793.00	83.65	-1051.96	14521384.35	2103202.19	39.975431	-109.348171	Point
BONANZA 1023-5J3AS BHL	8420.00	66.31	-1043.29	14521367.18	2103211.18	39.975383	-109.348140	Circle (Radius: 25.00)

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
2406.00	19.70	275.52	2317.42	46.42	-560.79	0.00	0.00	562.61
2556.00	19.70	275.52	2458.64	51.28	-611.12	0.00	0.00	613.14
2600.90	19.70	274.51	2500.91	52.60	-626.20	0.76	-90.27	628.27
3384.10	19.70	274.51	3238.26	73.38	-889.41	0.00	0.00	892.27
4349.75	0.00	0.00	4185.00	86.31	-1053.29	2.04	180.00	1056.64
4451.82	0.31	153.43	4287.06	86.07	-1053.17	0.30	153.43	1056.51
8584.81	0.31	153.43	8420.00	66.31	-1043.29	0.00	0.00	1045.39





Anadarko Petroleum Corp

Survey Report

Company:	US ROCKIES REGION PLANNING	**Local Co-ordinate Reference:**	Well BONANZA 1023-5J3AS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**TVD Reference:**	5297' GL + 15' RKB @ 5312.00ft
Site:	UINTAH_BONANZA 1023-5I PAD	**MD Reference:**	5297' GL + 15' RKB @ 5312.00ft
Well:	BONANZA 1023-5J3AS	**North Reference:**	True
Wellbore:	BONANZA 1023-5J3AS	**Survey Calculation Method:**	Minimum Curvature
Design:	BONANZA 1023-5J3AS	**Database:**	edmp

Project	UTAH - UTM (feet), NAD27, Zone 12N		
Map System:	Universal Transverse Mercator (US Survey Feet)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	UINTAH_BONANZA 1023-5I PAD				
Site Position:		**Northing:**	14,521,340.20 usft	**Latitude:**	39.975254
From:	Lat/Long	**Easting:**	2,104,289.90 usft	**Longitude:**	-109.344293
Position Uncertainty:	0.00 ft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	1.06 °

Well	BONANZA 1023-5J3AS					
Well Position	**+N/-S**	0.00 ft	**Northing:**	14,521,320.25 usft	**Latitude:**	39.975201
	+E/-W	0.00 ft	**Easting:**	2,104,255.52 usft	**Longitude:**	-109.344417
Position Uncertainty		0.00 ft	**Wellhead Elevation:**	ft	**Ground Level:**	5,297.00 ft

Wellbore	BONANZA 1023-5J3AS			
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2010	6/5/2012	10.88	65.85	52,237

Design	BONANZA 1023-5J3AS				
Audit Notes:					
Version:	1.0	**Phase:**	ACTUAL	**Tie On Depth:**	11.00
Vertical Section:	**Depth From (TVD) (ft)**	**+N/-S (ft)**	**+E/-W (ft)**	**Direction (°)**	
	0.00	0.00	0.00	272.95	

Survey Program **Date** 7/10/2012

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
184.00	2,406.00	Survey #1 (BONANZA 1023-5J3AS)	MWD	MWD - STANDARD
2,473.00	8,604.00	Survey #2 (BONANZA 1023-5J3AS)	MWD	MWD - STANDARD

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11.00	0.00	0.00	11.00	0.00	0.00	0.00	0.00	0.00	0.00
184.00	0.44	300.85	184.00	0.34	-0.57	0.59	0.25	0.25	0.00
269.00	1.67	251.47	268.98	0.11	-2.02	2.03	1.67	1.45	-58.09
352.00	3.08	253.46	351.91	-0.90	-5.31	5.26	1.70	1.70	2.40
442.00	4.12	263.21	441.73	-1.98	-10.84	10.72	1.34	1.16	10.83
532.00	4.84	271.74	531.46	-2.24	-17.84	17.70	1.09	0.80	9.48
622.00	6.77	274.82	620.99	-1.68	-26.93	26.80	2.17	2.14	3.42
712.00	8.79	275.26	710.16	-0.61	-39.06	38.98	2.25	2.24	0.49
802.00	10.64	277.46	798.86	1.10	-54.15	54.13	2.10	2.06	2.44
892.00	11.70	277.11	887.16	3.31	-71.44	71.52	1.18	1.18	-0.39

Anadarko Petroleum Corp

Survey Report

Company:	US ROCKIES REGION PLANNING	**Local Co-ordinate Reference:**	Well BONANZA 1023-5J3AS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**TVD Reference:**	5297' GL + 15' RKB @ 5312.00ft
Site:	UINTAH_BONANZA 1023-5I PAD	**MD Reference:**	5297' GL + 15' RKB @ 5312.00ft
Well:	BONANZA 1023-5J3AS	**North Reference:**	True
Wellbore:	BONANZA 1023-5J3AS	**Survey Calculation Method:**	Minimum Curvature
Design:	BONANZA 1023-5J3AS	**Database:**	edmp

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
982.00	13.55	278.72	974.98	6.04	-90.92	91.11	2.09	2.06	1.79
1,072.00	14.74	279.93	1,062.25	9.61	-112.62	112.97	1.36	1.32	1.34
1,162.00	16.71	278.62	1,148.88	13.53	-136.69	137.21	2.22	2.19	-1.46
1,252.00	18.47	274.64	1,234.67	16.62	-163.70	164.34	2.37	1.96	-4.42
1,342.00	20.22	273.94	1,319.58	18.84	-193.43	194.14	1.96	1.94	-0.78
1,432.00	20.93	276.75	1,403.84	21.80	-224.91	225.73	1.35	0.79	3.12
1,522.00	22.07	277.72	1,487.58	25.96	-257.63	258.62	1.33	1.27	1.08
1,612.00	22.42	272.36	1,570.89	28.94	-291.54	292.64	2.29	0.39	-5.96
1,702.00	22.34	276.40	1,654.12	31.55	-325.68	326.88	1.71	-0.09	4.49
1,792.00	20.66	274.21	1,737.85	34.63	-358.52	359.83	2.07	-1.87	-2.43
1,882.00	18.91	271.48	1,822.54	36.17	-388.93	390.28	2.20	-1.94	-3.03
1,972.00	19.61	273.68	1,907.50	37.51	-418.59	419.96	1.12	0.78	2.44
2,062.00	19.79	272.97	1,992.23	39.27	-448.87	450.30	0.33	0.20	-0.79
2,152.00	19.03	272.30	2,077.12	40.65	-478.75	480.21	0.88	-0.84	-0.74
2,242.00	19.08	271.92	2,162.19	41.73	-508.11	509.59	0.15	0.06	-0.42
2,332.00	18.29	276.67	2,247.45	43.87	-536.84	538.39	1.90	-0.88	5.28
2,406.00	19.70	275.52	2,317.42	46.42	-560.79	562.44	1.97	1.91	-1.55
FIRST MWD SURVEY									
2,473.00	19.95	273.75	2,380.45	48.25	-583.44	585.15	0.97	0.37	-2.64
2,564.00	19.62	274.36	2,466.08	50.43	-614.16	615.95	0.43	-0.36	0.67
2,655.00	19.63	276.05	2,551.79	53.20	-644.60	646.48	0.62	0.01	1.86
2,745.00	19.25	272.42	2,636.66	55.42	-674.45	676.41	1.41	-0.42	-4.03
2,836.00	20.63	271.67	2,722.20	56.52	-705.47	707.44	1.54	1.52	-0.82
2,927.00	19.44	272.17	2,807.70	57.56	-736.63	738.61	1.32	-1.31	0.55
3,017.00	19.88	272.42	2,892.45	58.77	-766.88	768.89	0.50	0.49	0.28
3,108.00	19.00	272.30	2,978.26	60.02	-797.14	799.18	0.97	-0.97	-0.13
3,199.00	18.13	271.67	3,064.52	61.03	-826.10	828.14	0.98	-0.96	-0.69
3,289.00	17.94	271.17	3,150.10	61.72	-853.95	856.00	0.27	-0.21	-0.56
3,380.00	17.06	270.92	3,236.89	62.22	-881.31	883.35	0.97	-0.97	-0.27
3,471.00	16.91	274.12	3,323.92	63.38	-907.86	909.92	1.04	-0.16	3.52
3,562.00	16.25	274.55	3,411.14	65.35	-933.75	935.88	0.74	-0.73	0.47
3,652.00	14.63	272.55	3,497.89	66.85	-957.66	959.83	1.89	-1.80	-2.22
3,743.00	12.88	264.55	3,586.28	66.40	-979.24	981.36	2.84	-1.92	-8.79
3,834.00	10.69	258.80	3,675.36	63.80	-997.62	999.58	2.73	-2.41	-6.32
3,925.00	9.31	249.05	3,764.98	59.52	-1,012.77	1,014.50	2.40	-1.52	-10.71
4,015.00	7.38	249.67	3,854.03	54.91	-1,024.99	1,026.46	2.15	-2.14	0.69
4,106.00	8.31	253.05	3,944.18	50.96	-1,036.77	1,038.01	1.14	1.02	3.71
4,197.00	6.50	260.30	4,034.41	48.18	-1,048.13	1,049.22	2.23	-1.99	7.97
4,288.00	4.50	261.42	4,124.99	46.78	-1,056.74	1,057.75	2.20	-2.20	1.23
4,378.00	1.81	250.55	4,214.85	45.78	-1,061.57	1,062.52	3.05	-2.99	-12.08
4,469.00	0.63	320.17	4,305.83	45.68	-1,063.25	1,064.19	1.86	-1.30	76.51
4,560.00	2.13	346.55	4,396.80	47.71	-1,063.96	1,065.01	1.75	1.65	28.99
4,651.00	1.81	342.17	4,487.75	50.73	-1,064.80	1,066.00	0.39	-0.35	-4.81

Anadarko Petroleum Corp

Survey Report

Company:	US ROCKIES REGION PLANNING	**Local Co-ordinate Reference:**	Well BONANZA 1023-5J3AS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**TVD Reference:**	5297' GL + 15' RKB @ 5312.00ft
Site:	UINTAH_BONANZA 1023-5I PAD	**MD Reference:**	5297' GL + 15' RKB @ 5312.00ft
Well:	BONANZA 1023-5J3AS	**North Reference:**	True
Wellbore:	BONANZA 1023-5J3AS	**Survey Calculation Method:**	Minimum Curvature
Design:	BONANZA 1023-5J3AS	**Database:**	edmp

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,742.00	2.00	20.42	4,578.70	53.58	-1,064.68	1,066.03	1.39	0.21	42.03
4,832.00	1.75	27.55	4,668.65	56.27	-1,063.50	1,064.99	0.38	-0.28	7.92
4,923.00	1.63	33.30	4,759.61	58.59	-1,062.15	1,063.75	0.23	-0.13	6.32
5,014.00	1.44	27.05	4,850.58	60.69	-1,060.92	1,062.63	0.28	-0.21	-6.87
5,105.00	0.56	32.05	4,941.56	62.08	-1,060.16	1,061.95	0.97	-0.97	5.49
5,195.00	0.69	59.80	5,031.56	62.73	-1,059.46	1,061.28	0.36	0.14	30.83
5,286.00	0.75	68.67	5,122.55	63.22	-1,058.43	1,060.28	0.14	0.07	9.75
5,377.00	0.96	82.23	5,213.54	63.54	-1,057.12	1,058.99	0.32	0.23	14.90
5,467.00	0.94	110.30	5,303.53	63.38	-1,055.68	1,057.54	0.51	-0.02	31.19
5,558.00	1.00	123.80	5,394.52	62.68	-1,054.32	1,056.15	0.26	0.07	14.84
5,648.00	0.50	258.92	5,484.51	62.17	-1,054.05	1,055.86	1.55	-0.56	150.13
5,739.00	1.25	328.30	5,575.50	62.94	-1,054.96	1,056.81	1.29	0.82	76.24
5,830.00	0.69	314.05	5,666.49	64.16	-1,055.88	1,057.78	0.67	-0.62	-15.66
5,921.00	0.56	290.30	5,757.48	64.70	-1,056.69	1,058.62	0.32	-0.14	-26.10
6,012.00	1.38	2.67	5,848.47	65.95	-1,057.06	1,059.05	1.45	0.90	79.53
6,102.00	0.94	7.30	5,938.45	67.76	-1,056.91	1,059.00	0.50	-0.49	5.14
6,193.00	0.63	32.92	6,029.45	68.92	-1,056.55	1,058.69	0.51	-0.34	28.15
6,284.00	0.38	33.92	6,120.44	69.59	-1,056.11	1,058.29	0.27	-0.27	1.10
6,375.00	1.56	335.05	6,211.43	70.97	-1,056.46	1,058.71	1.54	1.30	-64.69
6,465.00	3.06	355.30	6,301.36	74.47	-1,057.17	1,059.61	1.87	1.67	22.50
6,556.00	2.13	347.92	6,392.26	78.55	-1,057.73	1,060.37	1.08	-1.02	-8.11
6,647.00	1.75	357.30	6,483.21	81.59	-1,058.15	1,060.94	0.54	-0.42	10.31
6,738.00	0.94	7.67	6,574.18	83.72	-1,058.11	1,061.02	0.93	-0.89	11.40
6,828.00	0.63	36.30	6,664.18	84.85	-1,057.72	1,060.69	0.55	-0.34	31.81
6,919.00	0.88	72.17	6,755.17	85.46	-1,056.76	1,059.76	0.57	0.27	39.42
7,010.00	0.56	75.17	6,846.16	85.79	-1,055.66	1,058.68	0.35	-0.35	3.30
7,101.00	0.81	97.30	6,937.15	85.82	-1,054.60	1,057.62	0.40	0.27	24.32
7,192.00	1.56	110.67	7,028.13	85.31	-1,052.80	1,055.80	0.87	0.82	14.69
7,282.00	1.75	120.42	7,118.10	84.18	-1,050.47	1,053.41	0.38	0.21	10.83
7,373.00	1.00	114.17	7,209.07	83.15	-1,048.54	1,051.44	0.84	-0.82	-6.87
7,464.00	0.69	221.67	7,300.06	82.41	-1,048.18	1,051.04	1.51	-0.34	118.13
7,555.00	1.50	297.30	7,391.05	82.55	-1,049.61	1,052.47	1.63	0.89	83.11
7,646.00	1.25	283.67	7,482.02	83.33	-1,051.63	1,054.53	0.45	-0.27	-14.98
7,736.00	1.44	257.92	7,572.00	83.33	-1,053.69	1,056.58	0.70	0.21	-28.61
7,827.00	1.63	232.67	7,662.97	82.30	-1,055.84	1,058.68	0.76	0.21	-27.75
7,918.00	2.19	214.42	7,753.92	80.08	-1,057.85	1,060.57	0.90	0.62	-20.05
8,009.00	2.31	206.05	7,844.85	77.00	-1,059.64	1,062.20	0.38	0.13	-9.20
8,100.00	2.63	192.67	7,935.76	73.32	-1,060.90	1,063.27	0.72	0.35	-14.70
8,190.00	2.25	185.55	8,025.68	69.54	-1,061.52	1,063.70	0.54	-0.42	-7.91
8,281.00	2.06	178.30	8,116.62	66.13	-1,061.65	1,063.65	0.36	-0.21	-7.97
8,372.00	1.69	178.30	8,207.57	63.16	-1,061.56	1,063.40	0.41	-0.41	0.00
8,463.00	2.25	176.67	8,298.52	60.03	-1,061.42	1,063.10	0.62	0.62	-1.79
8,554.00	2.08	185.53	8,389.45	56.60	-1,061.47	1,062.98	0.41	-0.19	9.74
LAST MWD SURVEY									

Anadarko Petroleum Corp

Survey Report

Company:	US ROCKIES REGION PLANNING	**Local Co-ordinate Reference:**	Well BONANZA 1023-5J3AS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**TVD Reference:**	5297' GL + 15' RKB @ 5312.00ft
Site:	UINTAH_BONANZA 1023-5I PAD	**MD Reference:**	5297' GL + 15' RKB @ 5312.00ft
Well:	BONANZA 1023-5J3AS	**North Reference:**	True
Wellbore:	BONANZA 1023-5J3AS	**Survey Calculation Method:**	Minimum Curvature
Design:	BONANZA 1023-5J3AS	**Database:**	edmp

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,604.00	2.08	185.53	8,439.42	54.80	-1,061.65	1,063.06	0.00	0.00	0.00
PROJECTION TO TD									

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
2,406.00	2,317.42	46.42	-560.79	FIRST MWD SURVEY
8,554.00	8,389.45	56.60	-1,061.47	LAST MWD SURVEY
8,604.00	8,439.42	54.80	-1,061.65	PROJECTION TO TD

Checked By: _____ Approved By: _____ Date: _____

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU33433

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: PONDEROSA

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: BONANZA 1023-5J3AS

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047520620000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6100

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1620 FSL 1056 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESE Section: 05 Township: 10.0S Range: 23.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☑ SUBSEQUENT REPORT Date of Work Completion: 5/8/2014	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☑ OTHER	OTHER: WELLBORE CLEANOUT

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

THE OPERATOR HAS COMPLETED THE FOLLOWING WORKOVER/WELLBORE CLEANOUT ON THE SUBJECT WELL ON 05/08/2014. SEE ATTACHED OPERATIONS SUMMARY REPORT.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
May 20, 2014

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Doreen Green	435 781-9758	Regulatory Analyst II
SIGNATURE		**DATE**
N/A		5/19/2014

RECEIVED: May. 19, 2014

US ROCKIES REGION

Operation Summary Report

Well: BONANZA 1023-5J3AS ORANGE		Spud Date: 6/2/2012	
Project: UTAH-UINTAH	Site: BONANZA 1023-5I PAD		Rig Name No:
Event: WELL WORK EXPENSE	Start Date: 5/5/2014		End Date: 5/8/2014
Active Datum: RKB @5,312.00usft (above Mean Sea Level)	UWI: NE/SE/0/10/S/23/E/5/0/0/26/PM/S/1620/E/0/1056/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
5/5/2014	7:00 - 7:15	0.25	MAINT	48		P		SAFETY = JSA.
	7:15 - 11:30	4.25	MAINT	30		P		ROAD RIG TO LOCATION. FCP= 75#. FTP= 75#. MIRU. BLOW DOWN WELL TO PRODUCTION TANKS. CNTRL TBG W/ 20BBLS TMA. CNTRL CSG W/ 10BBLS TMAC. NDWH. UN-LAND WELL TO MAKE SURE TBG FREE. RE-LAND WELL. NUBOP. R/U FLOOR & TBNG EQUIP. UN-LAND WELL.
	11:30 - 15:00	3.50	MAINT	31	I	P		P/U & RIH W/ 18 JTS 2-3/8" L-80 TBNG. 535' OF TBNG. T/U. MIRU SCANNERS. POOH WHILE SCANNING 97JTS 2-3/8" L-80 TBNG. TALLY TBNG. TBNG PARTED @ 3015'. DISCOVERED THAT WE T/U ON FISH TOP @ 3550'. TBNG PARTED AND FELL TO BOTTOM OF WELL @ 8557'. ORIGINAL EOT REPORTED @ 8035' KB. TBNG LOOKED VERY GOOD. INCLUDING PARTED JT. IT APPEARS THAT TBNG COLLAR MAY HAVE BEEN SPLIT. LAST JT IN THE WELL LOOKED VERY GOOD, EVEN THREADS ON THE PIN WERE GOOD. L/D LAST JT AS RED JUST AS A PRECAUTION. SWIFN. SDFN. SPOKE W/ ENGINEERING GROUP & WORKED OUT PROCEDURE FOR FISHING JOB. WILL MIRU FISHERMAN AFTER MEETING TOMORROW AM.
5/6/2014	7:00 - 15:00	8.00	WO/REP	30				RIG PLACED ON STAND BY AFTER LATE MEETING IN TOWN.
5/7/2014	7:00 - 7:15	0.25	WO/REP	48		P		SAFETY = JSA.
	7:15 - 10:00	2.75	WO/REP	31	B	P		FCP= 70#. BLOW DOWN WELL. CNTRL CSG W/ 20BBLS TMAC. MIRU FISHERMAN. M/U FISHING TOOLS: OVERSHOT FOR 2-3/8" COLLAR, 2 OVERSHOT EXTENSIONS, 2-3/8" X 6' L-80 PUP JT. P/U & RIH W/ 112 JTS 2-3/8" L-80 TBNG. T/U ON FISH TOP @ 3553'. LATCH ONTO FISH. HAD TO PULL +/- 60,000# TO GET FISH MOVING. POOH W/ 112JTS TBNG. RELEASE FISHING TOOLS. X/O SPLIT COLLAR. RDMO FISHERMAN. TBNG STANDING FULL OF FLUID, TBNG PLUGGED. CALL FOR WIRELINE TRUCK TO PERF TBNG. NOTE: FOUND SPLIT COLLAR ON FISH TOP. IT IS SUSPECTED THAT COLLAR WAS OVER TORQUED @ SOME POINT AND FINALLY GAVE UP. NO CORROSION ON COLLAR.
	10:00 - 12:00	2.00	WO/REP	46	F	S		W/O WIRELINE TO PERF TBNG.
	12:00 - 12:30	0.50	WO/REP	34		P		MIRU WIRELINE. P/U & RIH W/ 4 HOLE TBNG PUNCHER. T/U SOLID @ 350'. POOH W/ WIRELINE. R/D WIRELINE.

RECEIVED: May. 19, 2014

US ROCKIES REGION

Operation Summary Report

Well: BONANZA 1023-5J3AS ORANGE		Spud Date: 6/2/2012	
Project: UTAH-UINTAH	Site: BONANZA 1023-5I PAD		Rig Name No:
Event: WELL WORK EXPENSE	Start Date: 5/5/2014		End Date: 5/8/2014
Active Datum: RKB @5,312.00usft (above Mean Sea Level)	UWI: NE/SE/0/10/S/23/E/5/0/0/26/PM/S/1620/E/0/1056/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	12:30 - 16:00	3.50	WO/REP	31	I	P		POOH W/ 11JTS TBNG TO FIND OBSTRUCTION. TBNG WAS BADLY CORKSCREWED. RELEASE WIRELINE. R/U EQUIPMENT TO CATCH FLUID OUT OF BIRD BATH. POOH W/ WET STRING OF TBNG. L/D ALL TBNG DUE TO BAD CORKSCREW. ALL TBNG RECOVERED OUT OF THE WELL. 253JTS 2-3/8" L-80 WAS ALL ACCOUNTED FOR. SWIFN. SDFN. TOO WINDY TO START RIH W/ PRODUCTION TBNG. SCALE LOOKED VERY GOOD ON TBNG. VERY LIGHT EXTERNAL SCALE ON LAST 7JTS.
5/8/2014	7:00 - 7:15	0.25	WO/REP	48		P		SAFETY = JSA.
	7:15 - 15:00	7.75	WO/REP	31		P		FCP= 80#. BLOW DOWN WELL TO PRODUCTION TANKS. CNTRL CSNG W/ 20BBLS TMAC. P/U XN W/ NOTCHED COLLAR. RIH W/ 118 2-3/8" L-80 Y-BND JTS TBNG THAT WERE STOOD BACK IN DERRIK. TALLY + P/U & RIH W/ 137 JTS 2-3/8" L-80 Y-BND TBNG OFF PIPE TRAILER. BROACH TBNG WHILE RIH AFTER EVERY 40JNTS. LAND WELL ON HANGER. RE-BROACH TBNG TO XN @ 8035' W/ 1.910" BROACH. R/D FLOOR & TBNG EQUIP. NDBOP. NUWH. SWI. RDMOL. TBNG LANDED AS FOLLOWS: KB= 15.00' HANGER= .83' 255JTS 2-3/8" L-80 TBNG = 8019.70' 1.875" XN / NOTCH COLLAR= 1.34' EOT @ 8036.87' TWLTR= 70BBLS

RECEIVED: May. 19, 2014